

RECEIVERS

PAST & PRESENT

SHORTWAVE

Communications Receivers 1945-1996



Second Edition

By Fred Osterman

Shortwave Receivers Past and Present

Communications Receivers 1945-1996

Second Edition

Edited by
Fred Osterman

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6830 Americana Parkway
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United States of America



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1 Introduction

This book is designed to provide the radio hobbyist or receiver collector with concise information on the value, features, specifications and performance of current and former shortwave communications receivers.

The scope of this Second Edition has changed from the First Edition. The first edition covered 150 table top receivers and 75 portables made for the preceding twenty years. A questionnaire was included with the first two printings asking readers what they wanted to see in the next edition. Nearly all respondents felt that the next edition should go back further in time to include receivers they grew up with. Portable receivers were not judged as important as table top receivers. A stronger emphasis on commercial receivers was noted. To a lesser extent, readers also wanted to learn more about foreign, especially European, receivers. Some respondents also felt receiver kits should receive some attention. This second edition attempts responds to these requests.

Some truly excellent values can be realized by purchasing a used shortwave radio. Receivers built in the last twenty years are solid state. Solid state means the circuit is composed of transistors and integrated circuits rather than vacuum tubes. The problems of tube aging, heat and wear are not a factor with these sets. In fact, most solid state receivers work as well five or ten years after they were made as the day they came out of the factory. Therefore, purchasing a quality used solid state shortwave radio can afford substantial savings with no loss in performance.

Unlike computers, stereos and other consumer electronic items, shortwave receivers have a long product life. Shortwave receivers do not become obsolete after five or even ten years. In fact, a twenty year old receiver is probably more useful and usable than a two year old personal computer.

A key objective of this book is to help the reader make an informed choice when purchasing a used shortwave receiver. The following questions are addressed:

- ◆ When was the radio introduced?
- ◆ What did it sell for when new?
- ◆ What is the current market value for the radio in used condition?
- ◆ Where was the radio made?
- ◆ What frequencies does it cover?
- ◆ What modes does it receive?
- ◆ What is the frequency display ... analog or digital?
- ◆ If a digital display, what is its resolution?
- ◆ What voltages (or batteries) are required?
- ◆ Where can I find a review of the radio?
- ◆ What accessories were made for it?
- ◆ How was the receiver performance rated when new?
- ◆ What is the used value rating of the receiver?

This book is designed to answer these questions and more.

This Second Edition illustrates many commercial receivers that are not available on the used market today. They were included for two reasons. The first reason is that they may be on the used market tomorrow! Used Racal RA6790's can now be easily found, but this was clearly not the case ten years ago. Who knows what will be available ten years from now? The second reason such receivers were included is simply because they are interesting.

Every effort to insure accuracy in this book has been made, but the publisher cannot be responsible for errors, omissions or misprints. Conflicting information was often encountered in researching material especially on older models. Specifications would vary depending on whether you were reading a specification sheet, owners guide or service manual. Specifications and features can also change during the production cycle of a receiver. In some cases the author had to make an educated judgement (a.k.a. "a guess") when encountering such contradictory data.

European receivers are also better represented (although still not fully). Again there are two reasons for this. The first is that this book will be sold in Europe. The second reason is simply because they are interesting. Few Americans are aware of the scope and selection of the amazing Eddystone line. Rohde & Schwarz, called the Collins of Germany, produces fabulous receivers.

Some receiver entries will have less information than others. Manufacturers in the 1940's, 1950's and 1960's did not provide the profusion of technical specifications we have become accustomed to in more recent times. The further one goes back, the less technical information is supplied. Specifications on lower-end models are particularly hard to come by. Perhaps the manufacturers felt such information would only confuse the entry level buyer, or maybe the specifications were so unbecoming as to better be left unsaid.

Other entries are incomplete simply because the information was not available to the author at press time. A certain "critical mass" of information was required before a receiver was included in this book. Unfortunately information on several receivers was so incomplete that they were not included at all. If you have information on an H.F. tabletop receiver manufactured since 1945 that is not shown in this book, the author would like to hear from you. Any help with missing information and corrections will be appreciated. Information and corrections from readers of the First Edition were valuable in preparation of this Second Edition.

I would like to especially thank **Matt Stutterheim** of Long Island, New York for sharing his receiver library, photographs, insights and extensive knowledge for the preparation of this book. Much of the commentary beyond the fact and figures was supplied by Matt.

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Harold Sellers

Russell F. Sievert *W8OZA*

John Wagner

Dr. David Wilson

The Ontario DX Association

The author welcomes your comments, corrections or additions for the preparation of a future Third Edition. The author would also like to learn if readers would be interested in a volume similar to this covering *portable* shortwave receivers from 1945 to date.

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2 Buying A Used Receiver

Why purchase a used receiver? The answer is simple: savings! You can typically expect to pay 30 to 40 percent off the price of a current model radio. On a discontinued model, the savings can be 50% or more.

In the era of vacuum tube receivers, purchasing a used receiver could be quite risky. As the tubes would age and become weaker, the performance of the receiver would gradually decline. The older tube-type sets would only work as well as the tubes in them. Tube receivers were also more mechanically intensive, and would use either gears or strings for tuning the VFO. Band switching was accomplished by complex rotary switches. Older receivers required far more maintenance than today's solid-state digital radios.

The performance of most solid-state (i.e. no vacuum tubes) radios does not diminish with time. A Kenwood R-5000 that was built in 1987 will work almost as well as one purchased last week. This fact makes purchasing a used R-5000 at a 40% savings quite tempting. With a little knowledge and preparation you can confidently purchase a used shortwave receiver.

What about tube-era receivers? Safety is one concern. Many lower priced tube radios were built without a power transformer. All the filament voltages added up to 117 VAC, thus precluding the need for the manufacturing expense of a transformer. Such receivers can be dangerous if capacitors fail. Be very careful when examining or servicing any elderly sets. A serious shock, or electrocution can result from "live" chassis, shorted transformers and even bad tube sockets. Unless you are technically qualified to evaluate such equipment, you should avoid it.

With a few exceptions, most tube receivers do not perform on par with today's solid-state rigs. They also may pose potential parts and service difficulties. Most of the major manufacturers of tube radios (Hammarlund, Hallicrafters, National, etc.) are no longer in business. These radios today are more sought after by collectors than listeners. While a few models such as the Collins R-390A, 51S-1 and Hammarlund HQ-180 and SP-600 still perform admirably, most tube receivers are best left to the collectors.

SOURCES: Private Sales

You have done your technical research. You have limited your target radio down to two or three different models, and have also developed a good feel for what you should spend for each. Now it is time to find the radio.

One equipment source is other hobbyists. They have bought a new receiver and wish to sell their old one. Or perhaps they have decided to explore amateur radio, and are looking to raise capital for a transceiver. Others may be leaving the hobby or getting a divorce. Used receivers also occasionally show up at auctions and yard sales. Purchasing a radio (or most anything else) from a individual has advantages and disadvantages:

Advantages:

- ◆ When purchasing a radio from an individual you can normally expect to pay less than if you bought it from a radio store.
- ◆ An individual will not charge you sales tax.

Disadvantages:

- ◆ You must take the seller's word as to the history, condition, and performance level of the radio. If you are making the purchase in person, you can check the condition and performance level.
- ◆ If purchasing by mail, you cannot determine the integrity of the seller.
- ◆ You cannot determine if the radio is stolen property.
- ◆ An individual will not permit payment by credit card.
- ◆ An individual will not generally be in a position to offer a warranty.

SOURCES: The Internet

The Internet is an increasingly popular place to find used and collector radios. All the above advantages and disadvantages of "Private Sales" listed above are applicable to the Internet ... plus the normal caveats of any business transaction over the Internet. Some related usenet news groups include:

`rec.radio.amateur.Boatanchors`
`rec.radio.amateur.shortwave` `rec.radio.amateur.swap`

Some interesting mailing lists include:

`WUN World Utility Network` `VSS Vintage Solid State`
`Boatanchors`

A few Web sites to try include:

`www.radiofinder.com` `www.antiqueradio.com`
`www.users.fast.net/~wa3key/collins.html`
`www.universal-radio.com`

You can also use search engines like Alta Vista to search for receiver manufacturers and sometimes even models.

SOURCES: Ham-Fests

Attending a hamfest can be a fun and educational experience. The flea-market at a major hamfest can be like a trip through a radio museum. It is an excellent opportunity to see many interesting and sometimes rare radios. Also be prepared to see an immense amount of unadulterated junk. But one man's garbage is another man's treasure!

A salesman at a leading East coast dealer suggests that you can never go wrong at a radio flea market ... as long as you take only \$5.00 with you ... and that includes parking fees! That cautionary note may be an exaggeration, but one should be prepared.

When you enter the hamfest flea market, ask if a *test bench* has been set up. Most of the larger events provide a *test bench* as a service for those wishing to checkout a used equipment purchase. AC voltage (and 12 VDC) plus an antenna is provided. You can *fire-up* the radio and confirm that it is operational.

Come prepared to test the radio, even if a test bench is not available.

■ A Very Long Extension Cord

You may not be able to find an outside AC outlet. With an extension cord, you can connect to an outlet near the door and bring the extension out.

■ A Cheater Antenna

Obtain a 15 to 20 foot length of plastic coated wire (18 or 20 gauge, preferably stranded). Connect a banana plug at one end and an alligator clip at the other.



With this configuration you will be able to add an antenna to virtually any radio. If the radio has a standard SO-239 jack (for a PL259-type plug) you can fit the banana plug end perfectly into the center of this jack. Use the alligator end to conveniently attach the antenna to any nonconductive item. If the receiver only has screw terminals, use the alligator end to attach to the radio. Such an antenna is not designed for DXing, but is adequate for receiver testing.

Special Notes ...

- For safety reasons, very old, low-end, tube receivers without power transformers should not be plugged in until it can be established that they do not present a shock hazard.
- Purchasing tubes and electrolytic capacitors at hamfests can be occasionally risky. Sometimes "dud" tubes and "leaky" capacitors are sold, resold and sold again at hamfests. This is one case where "recycling" is not a good thing.

If you are seeking an older tube-radio, bring mono headphones (with a ¼ inch plug), as some older radios did not have internal speakers.

Testing a digital communications receiver will not take long, but should include the following considerations:

1. Look at the frequency display. Rotate the knob to insure all the segments of all the digits work. The numeral "8" will test all segments.
2. Check to be sure all indicators are working. For example, if an LED is used to indicate mode, check all modes. Also be sure the lamp in the S-meter is working. The failure of an LED indicator or S-Meter lamp may not discourage you from buying the radio, but this information may help when you negotiate the best price.
3. Rotate the gain knob(s). If there is a *scratchy* sound, the potentiometer is dirty. If it is not serious, a "shot" of TV-tuner spray (without carbon tetrachloride) may clear it up. If it is very scratchy, the potentiometer may have to be replaced.
4. If there are rotary-switch knobs, try turning them. Do they snap in place and make a positive, clean contact or do they have a *mushy* feel and make a scratchy sound? Do you have to fiddle with the knob to help it make solid contact? Again, if the problem is minor, tuner spray can help. If the problem is advanced, the rotary switch would have to be replaced. This is a costly repair. If the *band switching* rotary knob has to be replaced, this is a very costly repair ... assuming the rotary switch can even be found.
5. Listen to the audio for signs of *hum*. A noticeable hum will indicate that the electrolytic capacitors in the receiver's power supply are going bad. This condition is especially prevalent in tube sets which are now reaching the age of twenty-plus years. Equipment that has been stored and not used for two or more years, will often suffer from capacitor failure. This condition can occur in radios bought from an estate sale.

Please note that some older tube radios with 600 ohm headphone output will exhibit some *hum* if used with low impedance headphones.

6. Now it is time to actually listen to the receiver for signals. You are probably listening to the radio during the day and probably with a modest antenna. As a shortwave listener, you already know that you will not be able to hear a lot of stations. However, you should hear some. Start with the 19 meter band 15000 to 15450 kHz. Look for WWV at 15000 kHz and broadcast stations above. Monitoring just one frequency is not an adequate test. It is important to remember that even general coverage digital receivers are *electronically* divided into bands. This is not normally apparent, but perhaps you have noticed the sensitivity of the receiver change when going from 1600 to 1601 kHz; or perhaps on your receiver it might also change when going from 4000 to 4001 kHz. Within the range of shortwave (1600 to 30000 kHz), there may be five or six bands. Therefore, try to sample the radio over every 5 MHz. You should be able to at least hear background static at roughly the same level throughout the range of the receiver. If the last 5 or 6 MHz of the receiver are totally dead (not even hiss), the receiver may have been used by a CB'er to monitor his own signal. If the shortwave and CB antenna were too close, this may have damaged the highest *band* of the receiver.

If you are interested in purchasing the radio do not be shy about making an offer at substantially lower than the marked price (maybe even one half). If the seller is tired of carrying the radio around, he or she may let it go cheaply.

Advantages:

- ✦ When purchasing a radio at a hamfest or flea market, you normally will pay less than if you bought it from a radio store.
- ✦ At most hamfest flea markets you will not be asked to pay sales tax.
- ✦ At a flea market, you may be able to negotiate the price ... especially at the end of the day!

Disadvantages:

- ✦ You must often take the seller's word as to the history and performance level of the radio.
- ✦ You cannot determine if the radio is stolen property.
- ✦ An individual will not permit payment by credit card.
- ✦ An individual will not generally be in a position to offer a warranty.

SOURCES: Radio Stores

Most stores that sell new amateur and shortwave equipment also sell used equipment. Most have come in to the store when customers trade-up. Unfortunately, not every city has an amateur radio store. Buying used gear from an established and reputable radio store should not be a problem. The hobbyists radio publications *QST*, *CQ*, *Monitoring Times* and *Popular Communications*, feature ads for radio stores nationwide. Most have an 800 number that you can call to check for a particular model, or request a used list. Some radio stores also post available used equipment on their Internet web sites.

Advantages:

- ◆ Most radio stores will thoroughly test a used receiver to be sure it meets its specifications before putting it out for sale. (Or they will mark it "as-is".)
- ◆ Most radio stores will offer a warranty including parts and labor. This is usually a thirty or sixty day limited warranty.
- ◆ Some radio stores will permit a return without penalty within seven to ten days.
- ◆ Most radio stores are available to answer any operational questions you have on the unit.
- ◆ You may use a credit card.

Disadvantages:

- ◆ When purchasing a used radio at a radio store you will often pay more than at a flea market or private sale.
- ◆ If you actually purchase the radio in the store you will have to pay sales tax. If you are purchasing mail order, out of state, you will not have to pay sales tax in most cases.

A Reminder ...

When trading in a radio, expect to receive 20 to 25% less than the selling amount. Also understand that you will seldom recover the cost of special modifications and options when selling or trading a radio.

3 Using This Book

Each manufacturer is represented by a Chapter in this book. This simple scheme turns out to be not so simple. In today's environment of corporate acquisitions, consolidations and joint ventures, making such classifications becomes difficult. Should one have a separate chapter for Collins and Rockwell? Sometimes the same model can be found under the Rohde & Schwarz label and the Siemens label. And there is GEC, Marconi and Eddystone. Should the DX-1000 be listed under Bearcat or Electra or Uniden?

The author, somewhat arbitrarily, elected to list the receiver under its most commonly accepted moniker. Therefore Collins models are listed under Collins, not Rockwell. Where receivers continue to be marketed under their traditional name plate, despite corporate consolidations, there will be separate chapters (e.g. Cubic and Swan, Marconi and Eddystone). In cases where a receiver is known primarily by its namesake, this will be used as the Chapter heading. The DX-1000 is seldom referred to as the Electra DX-1000. Therefore this model will be listed under Bearcat. Multi-Elmac will be a Chapter heading rather than Multi-Products. A review of the following list may avoid some of the potentially confusing Chapter names:

Name	See Chapter	Name	See Chapter
AEG	Telefunken	Micon	Vigilant
American Electrola	Quality U.S. Tech.	Moradco	Morrow
Arvin	see Collins	Multi-Products	Multi-Elmac
Canadian Marconi	Marconi	National Panasonic	Panasonic
Cubic	also see Swan	Northrop	Hallicrafters
Daimler-Benz	Telefunken	Realistic	Radio Shack
Datron	Transworld	Realistic	also see Allied
Electra	Bearcat	Rediffusion	Redifon
Harris	R.F. Communications	Polarad Elec.	see Rohde & Schwarz
Hygain	Galaxy	SoftWave	ComFocus
Inoue	Icom	Stoner	McKay Dymek
ITT	see Mackay	Terma Elektronik	Dansk
Knight Kit	also see Allied	Trio	Kenwood
Liniplex	Phase Track	WinRadio	Rosetta Labs
Marconi	also see Eddystone	World Access	Quality U.S.A. Tech.
Mechanical Lab	Videoton-Mechilabor	Zenith	Heathkit

A very brief company description or profile will introduce each Chapter. It is not within the scope of this book to provide detailed corporate histories. Many fine books covering the corporate histories of Heath, Zenith, Radio Shack, Hallicrafters, etc. are now available.

To the right of the profile will be shown the manufacturer's address for those wishing to obtain additional information on current models. Addresses will also be shown for companies that may be inactive. The dates associated with these address histories are derived largely from advertisement and are approximate at best. No attempt to indicate address histories prior to 1945 was made as this is outside the scope of this book.

We believe that we have covered most of the known Western manufacturers. However, there may be dozens of manufacturers in former Communist bloc countries and other parts of the world. The author welcomes further information on these models for the next edition.



② HQ-180



③ General Coverage Communications Receiver

④ Triple Conversion Superheterodyne. 18 Tubes.

⑤ Features:

- 1/4" Head. Jack
- S Meter
- Fiduciary Adjust
- Calibrator 100 kHz
- RF Gain
- Slot Filter ± 5 kHz
- Antenna Trimmer
- Vernier Tune ± 3 kHz
- Spkr. Terminals
- BFO ± 2 kHz.
- Bandspread
- AVC OFF/SLO/MED/FST

⑥ Specifications:

- Coverage 540 - 30000 kHz
- Modes AM/LSB/USB/CW
- Selectivity 6/4/3/2/1.5 kHz -6dB.
- I.F. 3035, 455, 60 kHz
- Sensitivity $< 7 \mu V$ -10 dB S/N CW
- Image Rej > 25 dB at 22 MHz
- Audio Out 2.5 W 4 ohm 5% dist.
- Antenna Input Terminals 72 ohm

⑦ Circuit Complement:

6BZ6 RF Amp, 6BE6 1st Mixer, 6BE6 Converter, 6BA6 455 IF Amp, 6BE6 Conv, 6BA6 60 kHz IF Amp, 6BA6 60 kHz IF Amp, 6BV8 60 kHz IF Amp/AVC/AM Det, 12AU7 SSB Product Det, 6AL5 NL, 6BZ6 Xtal Cal, 6C4 HF Osc, 12AU7 60 kHz BFO/S Meter, 0A2 Voltage Regulator, 5U4GB Rectifier, 6AV6 1st AF Amp/AVC, 6AQ5 AF Output and 6BA6 455 kHz Gate.

⑧ Accessories:

S-200 Speaker 24 Hour Clock/Timer Noise Silencer

⑨ **Comments:** Ranges: .54-1.05, 1.05-2.05, 2.05-4.04, 4-7.85, 7.85-15.35, 15.35-30 MHz. Bandspread: 3.44-4.04, 6.81-7.3, 13.98-14.425, 20.925-21.6, 27.89-29.7 MHz. Double conversion below 7.85 MHz. Requires a speaker. [¥70,000].

⑩ Variants:

Model HQ-180C (shown) has clock timer. Model HQ-180RC is the rack version with clock. Model HQ-180XE has 11 fixed crystal positions and adds 230VAC.

② **Made In:** United States 1959-1962

③ **Voltages:** 105-125 VAC 50/60 Hz
120 W

④ **Readout:**  Analog

⑤ **Physical:** 19x10.5x13" 38 Lbs.
482x266x330mm 17.2 kg

⑥ **Status:** Inactive Manufacturer
Inactive Model

⑦ **Rarity:** Common

⑧ **Reviews:** QST June 1960
CQ April 1960
QST July 1960
NASWA July 1995

	New	Used
⑨ Price:	\$429	\$170-250
⑩ Rating:	★★★★★	★★★★

① The Company Logo

The company logo or trademark is indicated in this upper-left position. An attempt has been made to show the logo or logos that were contemporaneous with the indicated model. This is not always a simple proposition. Often a different logo would be used in advertising than would be embossed on the receiver itself. Long running models (e.g. Collins 51S-1) may use two or more logos. All logos and trademarks illustrated are the property of the respective companies.

② Model Number

Receivers are sometimes produced in several versions. Usually the most common model will be indicated and illustrated. However, as in the example above, a variant may be shown. By illustrating the HQ-180C, rather than the HQ-180, the clock option can be shown to the reader. If a variant model is pictured, rather than the primary model, this will indicated by the words "(shown)" in the **Variants** section, later in the entry.

If the receiver also had a name, it will be shown under the model number. For example the Hallicrafters S-41G was referred to as the S-41G Skyrider Junior.

Some models will also indicate a military nomenclature below. Many will end in /URR. U stands for general utility. R stands for radio. R stands for receiving.

③ Receiver Type

The following classification system is used in this publication:

◆ Shortwave Broadcast Receiver

This type of receiver will not cover the entire shortwave spectrum and will not be capable of Morse code (or S.S.B.) reception. Such receivers only receive the international broadcast bands and are only capable of amplitude modulation detection. Most also include medium wave (AM band).

◆ General Coverage Broadcast Receiver

A general coverage broadcast receiver will cover the entire shortwave spectrum, but will not be capable of Morse code or single sideband (S.S.B.) reception. Most also include medium wave.

◆ General Coverage Communications Receiver

A general coverage communications receiver will tune the entire shortwave spectrum and will be capable of amplitude modulation detection and at least Morse code reception. Most better general coverage communications receivers manufactured after 1960 are also able to copy S.S.B.

◆ Amateur Band Communications Receiver

This type of receiver will cover the amateur bands and will be capable of at least Morse code reception. Once again, most sets made after 1960 were also able to copy single sideband. By default, some shortwave broadcast stations can also be heard on such receivers where the amateur and broadcast stations share common frequencies such as the 40 meter band. Some amateur band communications receivers also include one or more additional shortwave broadcast bands. From the mid 1960's, the trend was to offer crystal positions so those hams wishing to add additional coverage could do so. For example, the famous Drake R-4 family of receivers offered ten additional 500 kHz crystal positions.

◆ Fixed Channel Communications Receiver

A fixed channel receiver is designed to operate on a set frequency. For example, a merchant vessel may have dedicated fixed channel receiver for monitoring the international distress frequency of 2182 kHz. Some fixed channel receivers may be capable of multiple channels. The advantage to such receivers is the speed and simplicity of tuning. The obvious disadvantage is that one is limited to the frequencies the receiver is fixed too. Many such receivers are crystal controlled. They are most popular with maritime users.

◆ Marine Band Communications Receiver

This type of receiver may not cover the entire H.F. spectrum, but will usually only tune in limited bands and often only up to 5 or 13 MHz. Some marine receivers only have a position for upper sideband (USB). To tune lower sideband (LSB) you had to use the BFO. This was for safety.

◆ Kit

The word "Kit" will be appended to the receiver type to indicate that the receiver was sold unassembled.

④ Circuit Type

This general circuit type will identify the receiver as Single, Double, Triple or Quadruple Conversion; Superheterodyne or Regenerative. The number of conversions is the same as the number of intermediate frequencies (IFs) a receiver has. Very generally speaking, the more IF's a receiver has, the better the selectivity and immunity from image problems. Images are the reception of a signal other than the transmitted signal. Following this indication will be the total number of tubes used in the receiver. Although perhaps not technically correct, rectifiers and regulators will also be counted as tubes. If the receiver does not utilize tubes, "Solid State" will be indicated. Some receivers will have further circuit descriptions in the **Circuit Complement** section later in the entry.

⑤ Features

This section will list the key features of the receiver. A brief description of the more common features is shown below:

- ¼" Head. Jack Nearly all listed receivers include a ¼" (6.3 mm) headphone jack. Until the last few years this was strictly a monaural jack. Recently some receivers will additionally support stereo headphones. Most hobbyist receivers will disengage the internal speaker when the headphones are plugged in. Many commercial and marine receivers feature a switch to accomplish this. The switch does permit the speaker and headphones to operate concurrently.
- 4 Tuning Rates Many receivers offer multiple tuning rates selected by a rotary knob or buttons.
- AFC Automatic frequency control is a feature of the radio which compensates for variations in received signal frequency. Usually applies to FM broadcast band, but certain models follow AM carriers to correct for drift.
- AF Gain The AF gain control adjusts the gain of audio frequency circuits. This is typically just referred to as "Volume". Also see • RF Gain.
- AGC OFF/FST/SLO Automatic gain control is a feature of the radio which compensates for variations in received signal strength. Less expensive sets have a single built-in AGC setting. This entry indicates that the receiver's automatic gain control can be set three ways: Off (manual gain control), Fast or Slow.
- Antenna Trimmer Older general coverage receivers typically employed a variable capacitor to roughly match the antenna to the receiver.
- APTR Automatic Progressive Tuning Rate. With this feature, the faster the tuning control is spun, the higher is the rate of frequency change per revolution of the tuning control.
- Attenuator -20/40 dB Under special circumstances, it may be desirable to reduce the sensitivity of the receiver. This can be useful in combating overloading, intermod or even noise. In this example, a switch may insert 20 or 40 dB of attenuation.
- Aux. Tuning Scale An arbitrary index scale, usually marked in 100 or 1000 increments that is connected to the main tuning scale. These logging scales make returning to a given frequency very easy. Popular with Eddystone and others.
- AVC See AGC
- Bandsread A true bandsread system involves two calibrated dials. The main or band set dial is used to set the major range of frequencies. The bandsread dial spreads a small portion of the main dial over a wide range. For example, the 20 meter ham band may occupy a half inch on the main dial and 4 or 5 inches on the bandsread dial. This system provides for increased frequency accuracy but is predicated on the main dial be set properly in order for the bandsread band to align itself. A crystal calibrator is often useful in precisely setting the main dial. See • Calibrator.
- Bandsread 0-100 Less elaborate receivers may have a bandsread dial arbitrarily marked from 0 to 100. This system does not provide improved frequency accuracy.
- BFO ±2 kHz This arrangement is nothing more than a repeatable, electrical fine tuning. The Beat Frequency Oscillator is circuit designed to clarify CW and/or single sideband signals. If the range of the B.F.O. is known, it will be indicated.
- B.I.T.E. BITE stands for Built-In Testing Equipment. Receivers with this feature have the ability to run a self-diagnostic test and determine the source of the problem, usually to the board level. This information is then shown on the receiver's display.
- Break-In Switch This switch activates the mute line.

• Calibrator 25/100 kHz	Crystal calibrators were frequently featured in receivers before the advent of digital displays. When turned on, the calibrator would generate a precise carrier every 100 kHz. Some calibrators also produced a signal every 25 kHz. These tones were useful in setting bandsread scales and determining frequency.
• Cal Reset	This fine adjustment permits the receiver dial or fiduciary to be tuned to a standard frequency or crystal calibrator tone.
• CAT Jack	A Yaesu proprietary interface port to assist in the control of the receiver from a computer. Other hardware may be required.
• Carry Handle	A handle for the convenient moving of the radio.
• Clock	An analog or digital clock.
• Dial Drag Adjust	This mechanical adjustment permits the user to adjust how easily the tuning knob turns. This may be referred to as Dial Brake Adj.
• Dial Lamp	One or more lamps that illuminate the radio dial from the back or from the side.
• Dial Lamp Switch	A few receivers feature a switch to turn off the dial lamp. This extends battery life when the radio is not operating from the mains.
• Dial Lock	This feature disables the tuning knob by physical or electrical means. This prevents the receiver from accidentally being tuned off frequency.
• Dial Set	See Fiduciary Adj.
• Dimmer	The dimmer feature allows the user to adjust the intensity of the frequency display. This may be set in two or more steps or may be continuously adjustable by a knob.
• DSP	Digital signal processing.
• Duplex Filter	A filter that automatically protects the shipboard receiver from overloading by blocking the ship's transmit frequency.
• Ferrite MW Antenna	Some table top receivers and most portables feature a ferrite bar antenna to improve Medium Wave (AM 550-1600 kHz) performance.
• Fiduciary	This is a fixed, hairline pointer on the front of a receiver. The tuning dial rotates behind this pointer.
• Fiduciary Adj.	On some receivers, the fiduciary could be slightly adjusted or angled off the perpendicular to compensate for receiver drift and/or circuit aging.
• Fine Tuning	A mechanical or electrical adjustment to make small tuning adjustments.
• Fixed Channel	A crystal position providing one unchangeable frequency.
• Flywheel Tuning	A heavily weighted, well balanced wheel behind the tuning knob that allows for smooth and rapid analog tuning.
• Hinged Top Cover	Many older receivers featured a hinged top cover to facilitate tube replacement and adjustments to the radio
• IF Gain	A few receivers permit the IF gain to be adjusted as well as the RF and AF gain.
• IF Out Jack	A jack, typically on the back of the receiver, to allow access to the receivers I.F. This may facilitate the connection of a spectrum display or other ancillary device.
• IF Shift	An IF Shift control allows the listener to shift the IF passband of the receiver without changing the actual center frequency of the receiver. This control is useful when there is interference on one side of the signal.
• ISB	Independent sideband is the transmission of separate intelligence on each sideband. A military station may send voice on lower side band and radioteletype on the upper side band. A feeder may use each sideband to send different audio.

• Jack for S-Meter	A jack, usually on the back panel of the set, that permits the easy connection of an optional, external S-Meter.
• Line Out Jack	This output jack provides a low level audio signal that is not affected by the volume control of the receiver. This fixed-level jack is typically used to drive tape recorder or radioteletype decoder.
• Keypad	A numeric keypad is used to quickly tune the receiver to the desired frequency.
• Line Out	A low level audio output jack of fixed level. A line out jack is used to drive a tape recorder or external demodulator. In some cases a line output can also be used to connect the receiver to a phone line at 600 ohms.
• Memories	Memories or presets are a relatively new convenience feature in communications receivers. Early memory systems often include only 4, 6 or 10 presets and stored frequency information only. Other operational parameters such as mode and bandwidth were added later. Recently some receivers, such as the Drake R-8A store the station name or callsign along the other parameters. This labeling feature is particularly useful when memory capacity exceeds 100 channels.
• Memory Pass	A feature that lets you lock out a memory location from scanning.
• Memory Scan	The receiver has the ability to scan the frequencies stored in memories. (Also see • Sweep)
• Modular Construction	The receiver has some circuits built onto plug-in printed circuit cards for easy service and/or replacement.
• Monitor Level	Monitor is used in conjunction with a transmitter to listen to the transmitted signal on the receiver.
• Mute Line	A jack or terminal that connects the receiver to a transmitter or transceiver. This connection will quiet or mute the receiver during times that the transmitter is actually transmitting, thus protecting the receiver from damage from high R.F.
• Notch Filter	A notch filter suppresses a very narrow band on frequencies within the passband. An adjustable notch can be particularly effective at the reduction of elimination of heterodynes. A good notch filter will permit the very fine adjustment required to match the notch with the offending tone. If the notch is narrow enough, it may virtually eliminate the het with minimal disruption to the signal. May also be referred to as a Rejection Filter.
• NB	Noise blanker. A device to reduce noise. Usually most effective on man-made pulse type noise.
• P.B.T.	Pass band tuning permits the tuning of the passband without changing the receiver's frequency. It is very similar to IF Shift and is useful in reducing co-channel interference.
• Phono Input Jack	In the 1930's and 40's, the shortwave radio was often the center of the family's home entertainment. These receivers, which often had substantial audio amplifiers in them, could serve as the amplification source and speaker system for a phonographic turntable. The monaural turntable would plug directly into this input jack on the rear. A switch on the radio would disengage the radio's receiver circuitry and allow it to operate strictly as an audio amplifier.
• Preamp	A preamplifier applies an extra measure of amplification to the RF stage of the receiver.
• Preselector	A preselector peaks the receiver circuits for maximum sensitivity on the frequency being received.

• Presets 500/2182 kHz	Marine receivers often have the H.F. international distress frequency of 2182 kHz built into the receiver for immediate access. In this example the HF frequency and the longwave distress frequency of 500 kHz are both available.
• Rack Handles	Two handles on either side of the receiver that serve two purposes. Rack handles facilitate the mounting or removing of the receiver from an equipment rack. Rack handles also can be helpful during service. They allow the receiver to be laid on repair bench "face-down" without damage to the faceplate, knobs, etc.
• Record Out Jack	(See Line Out)
• Recorder Activation	Relay contacts that are usually normally open, that close when the timer turns on the radio. These contacts, when connected to the "remote" jack of a tape recorder, will start the tape recorder when the radio comes on.
• RF Gain	The RF gain control adjusts the gain of radio frequency circuits, thus controlling the sensitivity of the set. (A separate volume control adjusts the gain in the audio section of the radio). Sometimes the RF gain must be decreased to avoid receiver overload or to adjust for some types of noise.
• R.I.T.	Receiver incremental tuning allows tuning plus or minus from the main VFO frequency. This is typically used in amateur radio transceiver situations.
• RS-232	A jack or port on a receiver that permits communications and control of the receiver at RS232 voltage levels with a terminal or computer.
• Scan	As used in this book, Scan indicates the receiver can scan the memory channels. See also Sweep.
• S Indicator	Typically an LED bargraph that indicates signal strength.
• S Meter	A meter that measures the relative strength of the incoming signal.
• S/AF Meter	A meter that can indicate signal strength or audio output. A switch on the receiver selects which function of the meter is active.
• Sensitivity	Same as RF Gain.
• Speaker	A built-in speaker. Most early communications receivers did not feature a speaker built into the radio. It was thought that the vibration associated with the speaker would contribute to receiver instability or misalignment.
• Speaker Switch	A switch to turn the speaker on or off.
• Spinner Knob	An indent or protrusion of the main tuning knob to facilitate the rapid rotation of the knob.
• Spkr. Terminals	Terminals for connection of an external speaker
• Squelch	This control is used to eliminate unwanted background noise when monitoring an inactive frequency.
• Sweep	As used in this book, Sweep indicates that the receiver can automatically tune the spectrum between two defined frequency limits. For example, a receiver with Sweep capability could be programmed to sweep from 9.6 to 10 MHz. In some cases the speed of the sweep may be adjusted. In a carrier-operated Sweep the receiver will simply stop when a signal is detected. The sweep will not continue as long as the signal's carrier is detected. In a time-operated Sweep the receiver will pause, or "dwell", for a period of time and then resume, whether the signal persists or not. Some sophisticated receivers will permit the user to adjust the dwell time. This function is sometimes called "Search".

- Sync. Detection An amplitude modulated signal (such as used by medium wave and shortwave broadcast stations) consists of a carrier plus a lower and an upper sideband. Propagational fading may destabilize the carrier. Frequently one sideband may be distorted by a nearby interfering signal. Synchronous detection replaces the fading carrier with a pure carrier frequency with no level variation. The circuit then reconstitutes the signal from the stronger of the two sidebands. A stable signal with less distortion is the result.
- TCXO Temperature compensated crystal oven for improved stability.
- Telescopic Antenna A multi-segmented, monopole antenna.
- Tilt Bar A tilt bar or tilt feet that allow the receiver to angled up from the desk for more convenient viewing.
- Tilt Handle A tilt handle has the same function as a tilt bar and additionally can be used as a carry handle.
- Tip Head Jack Early economy receivers did not feature a 1/4" headphone jack. Instead a jack with two small holes on it was usually mounted in the back of the receiver. Inexpensive headphones, terminating in two tips, would be used.
- Tone Changes the balance between highs and lows on the audio output. In some cases this was a simple switch that cut the high tones.
- Two VFOs A VFO or variable frequency oscillator is simply a tuner. Some receivers feature two tuners or VFOs within the set. This has a variety of uses.
- Voice Scan Control This function pauses only when a voice signal is received. Scanning will not stop when a beat signal (het) or noise is encountered.
- VRIT Tuning Variable Rate Incremental Tuning. This is another name for Automatic Progressive Tuning Rate. See • APTR

⑥ Specifications

This portion of the entry will list key specifications for the receiver. These specifications are gleaned from manufacturer's manuals, ads and sales literature. Unfortunately some manufacturers are conservative in their specs., others are, shall we say, "optimistic". Generally speaking commercial manufacturers like Japan Radio, Rohde Schwarz, etc. will provide specifications that will withstand the greatest scrutiny. Companies that are consumer oriented may be more generous with their performance specs.. This book shows .3 μ V sensitivity for the Bearcat DX-1000 and .5 μ V for the J.R.C. NRD-525. One should not assume the NRD-525 is less sensitive. Ideally one should acquire each of the 500 receivers in this book and test them all in the same lab, on the same frequencies and with the same technician. This however is not possible. Specifications are nonetheless a good guide. But remember, it would be difficult to select a car based solely on horsepower, miles-per-gallon and acceleration figures.

◆ Coverage

The coverage for the receiver will be shown here and will be usually expressed in kiloHertz (kHz). Where space is short in this field, the frequency may be indicated in MegaHertz. To convert MHz to kHz, simply multiply by 1000. (To convert MHz to meters divide 300 by the MHz. Using 7.3 MHz as an example: $300 / 7.3 = 41$ meters). For non-general coverage receivers this field might indicate "Ham. See Comments." Please then refer to the Comments field further down for a detailed description of the coverage.

◆ Modes

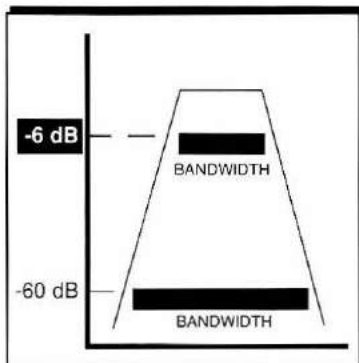
This field indicates the modes of reception that the receiver is designed and promoted as being able to copy. Please note that an "FM" indication in this field does **not** mean the receiver will cover the FM Broadcast Band 88-108 MHz. FM in the mode field indicates that the receiver is capable of demodulating a frequency modulated signal within part or all of the receiver's range. FM mode (or more correctly NBFM or narrow band FM) is used on shortwave in the upper portion of the 10 meter amateur band (29 MHz). A radio with FM mode could properly demodulate these signals.

The "AM" indication in this field does not refer to what Americans call the "AM band". AM in this context refers to any amplitude modulated signal. This book will refer to the "AM" broadcast band 540 to 1600 kHz as the Medium Wave (MW) band. Just recently the medium wave band has been extended to 1700 (or 1710) in some parts of the world.

This section generally only identifies the modes of reception based on the radio's switch positions. Other modes of reception may be possible. For example, many quality receivers do not have a specific mode button or position for FSK or RTTY (radioteletype). However, such receivers may be perfectly suited to handle a RTTY signal while the receiver is set in the LSB or USB mode. Independent sideband is a similar issue. A quality communications receiver can individually tune one or the other sidebands of an ISB signal. However, a receiver with true ISB will usually be able to simultaneously demodulate both sidebands. Most receivers of the 1940's and 1950's were capable of only AM and CW detection. These receivers typically do not make good single sideband receivers.

AM	Amplitude modulation (A3 or A3E)
CW	Continuous Wave, or more commonly; Morse code (A1 or A1A)
MCW	Modulated Continuous Wave, or modulated Morse code (A2 or A2A)
SSB	Single Sideband (A3H, J3E, H3E)
LSB	Lower Sideband
USB	Upper Sideband
RTTY	Radioteletype
FAX	Facsimile
ISB	Independent Sideband
FM	Frequency modulation

◆ Selectivity



Selectivity is the ability of a receiver to discriminate between the desired signal and undesired adjacent signals. Or put more simply, selectivity is the receiver's ability to pass one wanted signal while rejecting others. In today's crowded band conditions, this is a very important specification. In our Hammarlund HQ-180 example, we see the entry as: 6/4/3/2.1/1/.5 kHz -6dB. This indicates that the receiver generously features six different bandwidths. The 6 and 4 kHz positions would be suitable for amplitude modulated voice signals. The 3 and 2.1 kHz positions would be good for single sideband signals and the 1 and .5 kHz positions would typically be used for radioteletype and Morse code. The entry for the J.R.C. NRD-515 found later in the book, shows 6/2.4/_/_ kHz -6dB. This indicates that the receiver comes standard, or stock, with a 6 and 2.4 kHz filter plus has two empty slots for one or two optional filters.

Most receiver bandwidths are indicated at -6dB, some at -3dB. It is difficult to interpret the quality of a filter strictly from its width at -6 dB down. Ideally we would want to indicate the filter's bandwidth at -6dB and -60dB. The ratio of these two numbers is referred to as the shape factor. The closer this number is to the ideal "1", the steeper are the filter's "skirts" and the better the filter is at *simultaneously* passing the desired signal and rejecting others. Unfortunately this important second number is seldom provided on anything but the latest models.

◆ I.F.

The receiver's intermediate frequency or frequencies, will be shown if known. The first number shown will be the first I.F., the second number the second I.F. and so forth. Single conversion receivers will show just one number (usually 455 kHz), a double conversion receiver, two numbers, and so forth.

◆ Sensitivity

Sensitivity is the receiver's ability to hear weak signals. It is the characteristic of the radio which determines minimum usable input. For the Hammarlund HQ-180 we show: .7 μ V S/N 10 dB CW. Sometimes this will be indicated in its more technically complete form of: .7 μ V S+N/N 10 dB CW. This simply means that .7 μ V signal plus noise is 10 dB above noise alone. The lower the number of microvolts (μ V) to accomplish this, the more sensitive the receiver is. Some manufacturer's use 6, 15 or 20 dB rather than 10 dB. Making accurate comparisons becomes difficult.

The original way for specifying sensitivity involved showing the number of microvolts required to produce "normal test output". This method was inconsistent.

◆ Stability

Stability is a factor that we have come to almost take for granted in solid state radios. Even today's modestly priced receivers display virtually no drift when listening to a broadcast station. In the days of tube receivers this was not the case. It was common to turn your receiver on a half hour *before* you planned to listen to let it stabilize. Stability is an important specification, even today, for listeners that wish to copy Morse code, radioteletype or facsimile. These modes demand far more stability than an amplitude modulated voice signal. Stability is now usually indicated as \pm a number (for example ± 10 Hz). The smaller the number the better.

◆ Image Reject

The receiver's ability to suppress spurious images. The higher the negative number, the better the receiver's image rejection.

◆ IF Reject

IF rejection is not as great a concern, in most cases, as image rejection. IF rejection is the ability of the receiver to reject false signals from nearby transmitters that operate near the same frequency as the receiver's first IF. Again the more negative the number, the better. One reason that the IF of 455 was selected by early radio designers was that it was below the medium wave broadcast band.

◆ Audio Output

This entry of 2.5 W 4 ohm 5% dist. indicates the receiver has an audio amplifier that delivers 2½ watts into a 4 ohm output with 5 percent distortion.

◆ Antenna Input

In our example, "Terminals 72 ohms" indicates that this receiver uses screw terminals for connecting the antenna. Most current amateur and shortwave communications receivers feature an SO-239 jack. This is the female receptacle for a PL-259 connector. Other common antenna inputs are RCA (sometimes also referred to as PHONO or CINCH). Modern military receivers use the more expensive and lower loss BNC jack. The female chassis mounted BNC jack may be referred to as a UG-1094/U. The male BNC may be referred to as a UG-88B/U. Some military receivers use N connectors. The female chassis mounted N jack may be referred to as a UG-556. The male N may be referred to as a UG-21. Your local radio dealer or Radio Shack can provide the necessary adapters to change the antenna jack as needed.

⑦ **Circuit Complement**

This section will provide additional details on the receiver's circuit. This will show the tube line up, if known, on non-solid state receivers.

⑧ **Accessories**

This section will list optional accessories associated with the receiver. Such items as speakers, filters, converters and other options will be listed.

⑨ **Comments**

This section will be used to provide additional information, specifications or commentary on the receiver.

The Japanese are very keen collectors of quality American-made communications receivers. Models that are commonly collected in Japan will show an entry in this format: [¥120,000] This indicates the market price for this receiver in the Japanese used market. For a very rough conversion to dollars, simply move the decimal point two places to the left. In this example: ¥120,000 = \$1,200.

⑩ **Variants**

This portion of the entry will list model variants. Variants may be very similar or quite different from the primary receiver listed. If the differences are significant this book will likely have a separate entry for the variant. In this case the variant listed will be printed in normal type. If the variant model number is listed in bold type then there will not be a separate entry. In most cases, the distinguishing features of the variant will be explained. Variants are common with commercial manufacturers.



② **HQ-180**



- ③ **General Coverage Communications Receiver**
 ④ Triple Conversion Superheterodyne. 18 Tubes.

- ⑤ **Features:**
- 1/4" Head. Jack
 - RF Gain
 - Spkr. Terminals
 - S Meter
 - Slot Filter ± 5 kHz
 - BFO ± 2 kHz.
 - Dial Cal. Adjust
 - Antenna Trimmer
 - Bandspeed
 - Calibrator 100 kHz
 - Vernier Tune ± 3 kHz
 - AVC OFF/SLO/MED/FST

- ⑥ **Specifications:**
- | | |
|---|-------------------------------------|
| Coverage 540 - 30000 kHz | Modes AM/LSB/USB/CW |
| Selectivity 6/4/3/2/1.5 kHz -6dB. | I.F. 3035, 455, 60 kHz |
| Sensitivity $< .7\mu V$ -10 dB S/N CW | Image Rej > 25 dB at 22 MHz |
| Audio Out 2.5 W 4 ohm 5% dist. | Antenna Input Terminals 72 ohm |

- ⑦ **Circuit Complement:**
 6BZ6 RF Amp, 6BE6 1st Mixer, 6BE6 Converter, 6BA6 455 IF Amp, 6BE6 Conv, 6BA6 60 kHz IF Amp, 6BA6 60 kHz IF Amp, 6BV8 60 kHz IF Amp/AVC/AM Det, 12AU7 SSB Product Det, 6AL5 NL, 6BZ6 Xtal Cal, 6C4 HF Osc, 12AU7 60 kHz BFO/S Meter, 0A2 Voltage Regulator, 5U4GB Rectifier, 6AV6 1st AF Amp/AVC, 6AQ5 AF Output and 6BA6 455 kHz Gate.

- ⑧ **Accessories:**
 S-200 Speaker 24 Hour Clock/Timer Noise Silencer

- ⑨ **Comments:** Ranges: .54-1.05, 1.05-2.05, 2.05-4.04, 4-7.85, 7.85-15.35, 15.35-30 MHz. Bandspeed: 3.44-4.04, 6.81-7.3, 13.98-14.425, 20.925-21.6, 27.89-29.7 MHz. Double conversion below 7.85 MHz. Requires a speaker. [¥70,000].

- ⑩ **Variants:**
 Model **HQ-180C** (shown) has clock timer. Model **HQ-180RC** is the rack version with clock. Model **HQ-180XE** has 11 fixed crystal positions and adds 230VAC.

- ② **Made In:** United States 1959-1962

- ③ **Voltages:** 105-125 VAC 50/60 Hz
120 W

- ④ **Readout:**  Analog

- ⑤ **Physical:** 19x10.5x13" 38 Lbs.
482x266x330mm 17.2 kg

- ⑥ **Status:** Inactive Manufacturer
Inactive Model

- ⑦ **Rarity:** Common

- ⑧ **Reviews:** QST June 1960
CQ April 1960
QST July 1960

	New	Used
⑨ Price:	\$429	\$160-250
⑩ Rating:	★★★★★	★★★★

① **Photograph**

A photograph of receiver will be shown in this top-right position. The quality of the photographs will vary significantly. Manufacturers have provided high original photographs for most current models. Such photographs are not typically available for receivers that are 40 or 50 years old. In such cases the image had to be scanned from old advertising materials and may lack clarity. It is the belief of the publisher that a poor photograph is still more instructive than none at all.

② **Made In**

The country in which the receiver was manufactured will be indicated in this position. A year or range of years will follow the country. This indicates the approximate years that the receiver was actively marketed. This will not necessarily be concurrent with the years that the receiver was manufactured.

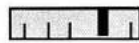
③ **Voltages**

This field indicates the voltage and usually the line frequency that the receiver operates from. The wattage will also be shown if known. Battery operation, if any, will be indicated here.

D cells = UM-1, AA cells = UM-3

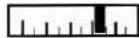
① Readout

This portion of the entry shows an icon and label indicating the type of readout or frequency display used on the receiver.



Analog

This receiver uses an analog pointer that is moved along a nonlinear horizontal dial or has a fixed fiduciary (hairline) behind which is rotated a dial. Analog dials generally are the least accurate.



Analog Lin.

An analog linear dial is similar to a regular analog dial. However, the dial behind it is different in that all portions of the radio dial take up a uniform amount of space. On an analog linear dial if 3.5 to 4 MHz occupies one inch, so will 14 to 14.5 MHz. Such linear dials usually are configured to yield much more accuracy than a traditional analog dial. In some cases dial readout better than ± 1 kHz can be achieved.



Digital LED

This icon indicates the receiver has a digital display with 1 kHz accuracy. The display utilizes light emitting diodes (LED).



Digital Phs.

This icon indicates the receiver has a digital display with 100 Hz (.1 kHz) accuracy. The display utilizes a phosphorescent display.



Digital LCD

This icon indicates the receiver has a digital display with 10 Hz accuracy. The display utilizes liquid crystal display.



Digital LCD

This icon indicates the receiver has a digital display with 1 Hz accuracy. The display utilizes liquid crystal display.



Digital LED

This icon indicates the receiver has a digital display with 5 kHz accuracy. The display utilizes light emitting diodes (LED).



Digital Mech.

This icon indicates the receiver has a mechanical digital display with 1 kHz accuracy. Often referred to as an "odometer" type display.



Dig. Knobs

This receiver has an individual rotary knob to select (and display) each frequency digit, in this case, out to 100 Hz accuracy.



Dig. Knobs

This receiver has an individual rotary knob to select (and display) each frequency digit, in this case, out to 5 kHz accuracy.



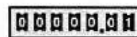
Digital Mech.

This receiver uses ten position (decadic) thumbwheel switches to select and display each frequency digit to 1 kHz accuracy.



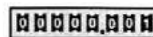
Digital Mech.

This receiver uses ten position thumbwheel switches to select and display each frequency digit out to 100 Hz accuracy.



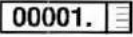
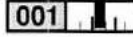




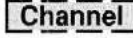




Digital Mech.

This receiver uses ten position thumbwheel switches to select and display each frequency digit out to 10 Hz accuracy.



Digital Mech.

This receiver uses ten position thumbwheel switches to select and display each frequency digit out to 1 Hz accuracy.

	Digital Mech. & Ana. Linear	This receiver has a mechanical digital display (odometer-type) for all positions to 1 kHz. Then there is a vertical analog vernier dial for readout less than 1 kHz (usually to 100 or 200 Hz). See Collins R-390.
	Digital Mech. to 100 kHz then Analog Lin.	This receiver has a mechanical digital display (odometer-type) for the 10 MHz, 1 MHz and 100 kHz positions. The remaining digits are displayed via a linear analog dial. See Collins 51S-1.
		This receiver utilizes rotary switches to select the 10 MHz, 1 MHz and 100 kHz positions. The 10 kHz, 1 kHz and 100 Hz positions are mechanically digitally displayed.
	Coil Chart & Micrometer	This receiver uses a micrometer-type calibrated multi-turn rotary knob. A coil chart is then used to interpolate the frequency. See early National receivers.
		These icons indicate that the receiver uses an analog dial in conjunction with a micrometer dial. See National.
	Digital Mech. & Micrometer	A combination of mechanical digital readout (10 500 kHz) and micrometer dial is used to determine frequency. See National HRO-500.
	Channel	This receiver does not have a frequency display. It is a fixed, multi-channel receiver. The channel number is visible when the channel is selected.
	No Display	This receiver has no display. It is a fixed channel, single frequency receiver.
	Digital	This receiver is controlled exclusively by computer. The receiver itself has no frequency display. The frequency (and other operating parameters) are displayed on the screen of the computer controlling the receiver. The frequency display resolution is to the nearest 1 Hz.
	Digital	This receiver is controlled exclusively by computer. In this example frequency display resolution is to the nearest 10 Hz.
	Digital	This receiver is controlled exclusively by computer. In this example frequency display resolution is to the nearest 1 kHz (1000 Hz.).

⑤ Physical

This portion of the entry shows the size and weight of the receiver. The dimensions are shown in the format of: **width x height x depth** (WxHxD) in inches ("). These dimensions should be considered approximate. The height and especially the depth may not be exact. There is no standardized method of measuring a receiver's size. Some manufacturers include the receiver's "feet" in the height, others do not. Some manufacturers include the protrusion of the knobs, and rear panel connectors, others do not. The weight will then be shown in pounds (Lbs.). This data is also provided in metric format for the benefit of those readers living in the civilized world.

⑥ Status

The first line of this entry indicates whether the manufacturer is still actively producing H.F. communications receivers. Note that an inactive indication does not necessarily mean the company is out of business. In some cases the company may have been acquired by another concern or involved in a different product line.

The second line of this entry indicates whether the model shown is still actively manufactured and marketed.

⑦ Rarity

This entry indicates the rarity of the radio. Five categories are used:

Abundant	This model is continuously available on the used market.
Common	This model is frequently available and can be found with a minimum of patience and persistence.
Scarce	This model is not common. One may have to look for several weeks or months to find this model.
Very Scarce	This model only appears on the used market occasionally.
Extremely Scarce	This model is not normally found in the used market. Extreme patience and a large element of luck would be required to find this model.
Typically Not Available	This model is virtually unobtainable on the normal consumer (amateur, shortwave) market. This classification usually applies to exotic, commercial receivers.

These rarity classifications are for the American market. The Eddystone EB-35 is "Very Scarce" in the United States, but is "Common" in the United Kingdom. Many high-end commercial receivers, rarely seen on the American market, appear regularly on the Japanese used market (...at equally rarefied prices).

⑧ Reviews

This entry will be of interest to those seeking additional information on the indicated model. The articles cited here vary from simple product announcements to comprehensive technical reviews. In some cases the book or magazine indicated may be out of print. Consult your library for such titles. Please refer to **Chapter 4 More Information** later in this book for further details on most of the referenced publications.

One highly respected, and often mentioned review source is *Passport to World Band Radio*. The first annual edition was actually titled *Radio Database International 1985-86*. The second annual edition was titled *Radio Database International 1987*. All editions since are titled *Passport to World Band Radio* followed by the year. For consistency the first annual edition will show as *Passport 1985/86*. The second annual edition will be shown as *Passport 1987* and so forth. This publication usually provides a detailed technical analysis the first year the model appears in the book. The same model in subsequent years is treated in a more concise manner. However, these subsequent reviews, although short, often contain valuable additional information regarding updates, improvements and changes and should therefore not be ignored. The *World Radio TV Handbook* is another annual publication that now also includes receiver reviews nearly every year.

⑨ Price New and Price Used

The radio's new price will be shown first. In the 1940's and 1950's, models typically sold in a very tight price range. In most cases, a list price was established by the manufacturers and that was the going price for everyone. In the 1960's and 1970's receivers were sold both at a list price and discounted. For such receivers a price range will be shown. This range will be from a number lower than the list price up to the list price. In the 1980's and 1990's, most noncommercial receivers tend to consistently sell below the manufacturer's suggested list price. Therefore the price or price range will likely be under the list price. A small **A** next to the value denotes the amount is approximate.

One should keep inflation in mind when noting new prices. A 1950 price of \$500 would translate to an equivalent buying power of perhaps \$3000 or \$4000 today.

Many commercial receivers will not show a new price. In many cases receivers are manufactured in production runs for a specific client, often under a private contract. In some cases the author simply could not obtain a new price.

The used price or price range is also shown. This price is for a unit in good working order, with owner's manual and having no cosmetic problems. The price indicated is what you might expect to pay for this model, from a radio store, providing a 30 to 60 day warranty. You should expect to pay 10% to 25% less when purchasing from a private individual or at a hamfest where no warranty is supplied. At a flea market or garage sale, virtually anything goes.

The following symbols are utilized in the New and Used Price entries:

- ① New price unknown.
- ② This model is typically unavailable on the used market. Used price undetermined.
- ③ This price will vary dramatically depending on condition.
- ④ Too new for a used price to be determined.
- ⑤ Used price unknown.

⑩ New Value Rating and Used Value Rating.

It is difficult to rate receivers. Nearly every receiver has a combination of good and bad qualities. When evaluating radios, cars, cameras or computers, many attributes have to be weighted and then combined.

When rating an entire price range of products for "value" the issue becomes even more complicated. It is easy to say that a JRC NRD-93 at \$7000 is a better receiver than a Drake SW-8 at \$700. But which is the better *value* for the dollar?

The first rating is the **New** rating. A scale of one to five stars is used to indicate the value score of the receiver when sold **new**. This score is weighted for the price class. A \$300 radio rated five stars will typically not perform as well as a \$3000 radio rated three stars.

The second rating is the **Used** rating. This rating is designed to assist those looking to purchase **used** radio for **listening** and **DX'ing**. This is not a rating for collectors. A radio may have a low rating, but be highly collectable because of its historical significance or rarity. The composite used rating is designed strictly for those looking for performance, value, reliability and serviceability. A receiver made by a defunct manufacturer will not merit five stars. Parts and service may be a problem. In fact virtually all receivers prior to 1970 will be unrated. These receivers make a poor choice for the listener simply from a parts and maintenance perspective. Radios of this vintage are better left to radio collectors.

The New and Used ratings in this book do not necessarily reflect the personal opinion of the author! The author, having been in the radio and electronics business for 25 years, has had the opportunity to personally use many, but certainly not all the receivers covered in this book. The ratings are derived from a *combination* of personal experience and from a consensus of other opinions. In cases where the author has not personally tested a radio, the comments of other reviewers is used exclusively. Unfortunately there are some receivers (usually foreign or commercial models) that the author has not used and have not been reviewed by anyone. Such models are unrated. Receiver kits are also not rated due to their unknown construction quality.

The rating system is as follows:

- ★★★★★ Excellent Value
- ★★★★ Very Good Value
- ★★★ Good Value
- ★★ Fair Value
- ★ Poor Value

In the absence of a rating, the following symbols will be shown:

- ⑥ Insufficient information available for a value rating.
- ⑦ Too old for a value rating.
- ⑧ Too new for a value rating.
- ⑨ Kits are not value rated.
- ⑩ Too specialized for a value rating.

There is certainly room to debate any rating. I apologize in advance for upsetting or offending any reader with a poor rating for their receiver. One can become emotionally attached to one's receivers and love is in fact, sometimes blind. Although I have used receivers costing five figures, none can match the "excitement" value of my first receiver, a Hallicrafters S-120. The reality, however, is that the S-120 was only a fair value new and would be a poor value as a used receiver investment today.

4 More Information

■ Books

Buyer's Guide to Amateur Radio

by Angus McKenzie

Radio Society of Great Britain ©1985

This book covers the whole range of amateur radio equipment including receivers, transceivers, amps and accessories.

Collins S-Line Compendium of Factory Modifications

by Marvin Born *KF8XU*

Worthington, Ohio

This compilation includes all authorized modifications for the Collins S-Line including the 75S-1 to 75S-3 and the 51S-1 series (also KWM1/2, 32S-1/2/3).

Communications Receivers Principles and Design

by Ulrich L. Rohde and T.T.N. Bucher

McGraw-Hill Book Company, New York, New York. ©1985

This highly technical book is written for system and design engineers.

Communications Receivers. The Vacuum Tube Era

by R.S. Moore

R.S.M., Key Largo, Florida. ©1993

The golden age of vacuum tube receivers is revisited in this comprehensive book covering the period 1932 to 1981. Key facts, features and photographs of Breting, Collins, Ecophone, Gonset, Hallicrafters, Howard, National, Hammarlund, McMurdo Silver, Drake, Sargent, RME and many more. Lots of photos. Third Edition.

Ham Equipment Buyer's Guide

by Bernarr Wixon *W9MFL*

Barbara Brand Wixon, Glen Ellyn, Illinois

This publication is produced every few years and features amateur equipment for the covered period. It also includes shortwave receivers.

Heathkit A Guide to the Amateur Radio Products

by Chuck Penson *WA7ZZE*

Electric Radio Press, Inc., Durango, Colorado. ©1995

The definitive examination of all amateur, shortwave and related accessories offered by Heathkit. An outstanding compilation with large sharp photographs.

Passport to World Band Radio

by Larry Magne

International Broadcasting Services, Penn's Park, Pennsylvania

This annual publication is the leading guide to shortwave broadcast stations, schedules and frequencies. It is also a highly respected source for hard-hitting, objective commentary on shortwave receivers currently on the market.

The Pocket Guide to Collins Amateur Radio Equipment 1946-1980

by Jay H. Miller *KK5IM*

Jay H. Miller. ©1995

A well organized guide to the famous Collins line of amateur equipment.

Radio Receiver - Chance or Choice

by Rainer Lichte

Gilfer Associates, Inc., Park Ridge, New Jersey. ©1985

Reviews many popular shortwave portables and table radios from the period 1975 to 1985.

More Radio Receiver - Chance or Choice

by Rainer Lichte

Gilfer Associates, Inc., Park Ridge, New Jersey. ©1987

Reviews 14 more radios produced in the mid 1980's.

Radios By Hallicrafters

by C. Dachis

Schiffer. Atglen, Pennsylvania. ©1996

A marvellous book with over 1000 sharp photos of radio receivers, transmitters, speakers, early TV sets and accessories from the famous Hallicrafters label. Technical descriptions of every known model including dates with new prices and current values.

Radio Communications Receivers

by Cornell Drentea

Tab Books Inc. Blue Summit, Pennsylvania. ©1982

An historical and technical guide to HF and VHF receiver design. Out of print.

Radio Nederlands Receiver Guide

by Jonathan Marks

Rader Nederland

An informative pamphlet providing information and evaluation of current portable and tabletop shortwave receivers.

World Radio TV Handbook

by Andrew G. Sennitt

Billboard Publications.

This venerable annual publication primarily covers shortwave, medium wave, FM and television broadcasting. Most years also include equipment reviews.

WRTH Equipment Buyers Guide 1993

by Willem Bos and Jonathan Marks

Billboard Publications.

This publication reviewed shortwave portables, communications receivers, car radios, antennas and accessories that were available in 1993. No edition beyond the 1993 has been announced as of press time.

I.B.S. Whitepaper Reviews

by Larry Magne

International Broadcast Services, Penn's Park, Pennsylvania

These authoritative reports, 12 to 20 pages in length, offer complete and unbiased evaluations and ratings on a single radio model. These exhaustive reviews are available for most current communications receivers (and some worldband portables). I.B.S. also publishes a special White Paper titled *How To Interpret Receiver Specifications and Lab Tests*. The I.B.S. White Paper reports can be obtained directly from the publisher and selected radio dealers.

■ Periodicals

The following magazines are valuable sources for one or more of the following:

- Current equipment reviews.
- Advertising of new equipment.
- Classified advertising of used equipment.
- Historical or restoration articles for collectors.

All are published monthly unless otherwise noted. As one would expect, the publications that focus on radio listening will have a greater emphasis on receivers than general amateur radio publications.

Amateur Radio Trader

P.O. Box 3729
Crossville, TN 38557

Emphasis: Amateur Radio Sales

- Ads for new equipment.
- Classified section for used radios.
- Published 24 times per year.

CQ

76 North Broadway
Hicksville, NY 11801

Emphasis: Amateur Radio

- Ads for new equipment.
- New equipment reviews (mostly ham).
- Small classified section for used radios.

Ham Trader Yellow Sheets

P.O. Box 2057
Glen Ellyn, IL 60138

Emphasis: Amateur Radio Sales

- No articles or reviews
- Big classified section for used gear.
- Published 24 times per year.

Monitoring Times

P.O. Box 98
Brasstown, NC 28902

Emphasis: Radio Listening.

- New equipment reviews.
- Ads for new equipment.
- Some historical articles.
- Small classified section for used radios.

Popular Communications

76 North Broadway
Hicksville, NY 11801

Emphasis: Radio Listening.

- New equipment reviews.
- Ads for new equipment.
- Some historical articles.
- Small classified section for used radios.

Practical Wireless

PW Publishing Ltd.
Arrowsmith Court
Station Approach
Broadstone, Dorset BH18 8PW
England

Emphasis: Amateur Radio.

- New equipment reviews (mostly ham)
- Ads for new equipment.
- Some historical articles.

QST

American Radio Relay League
225 Main St.
Newington, CT 06111-9965

Emphasis: Amateur Radio

- Ads for new equipment.
- New equipment reviews (mostly ham).
- Classified section for used radios.

Radio & Electronics World

Sovereign House
Brentwood
Essex
England

Emphasis: Radio

- New equipment reviews.
- Ads for new equipment.

Radio Communications

Lambda House
Cranborne Road
Potters Bar, Herts, EN6 3JE
England

Emphasis: Amateur Radio

- New equipment reviews (mostly ham).
- Ads for new equipment.

Shortwave Magazine

PW Publishing Ltd.
Arrowsmith Court
Station Approach
Broadstone, Dorset BH18 8PW
England

Emphasis: Radio Listening.

- New equipment reviews.
- Ads for new equipment.
- Some historical articles.

73 Amateur Radio

70 Route 202 N.
Peterborough, NH 03458

Emphasis: Amateur Radio

- Ads for new equipment.
- New equipment reviews (mostly ham).

The following publications are cited in this book, but are no longer printed:

Popular Electronics
Electronics Illustrated
Ham Radio Magazine

■ Clubs & Journals

Antique Radio Classified

P.O. Box 2
Carlisle, MA 01741

Emphasis: Collecting and Restoration

- Historical articles on all types of receivers
- Classified section often includes H.F. rx.

Collins Journal

David A. Knepper
Box 34
Sidman, PA 15955

Emphasis: Collecting and Restoration

- Focus is on Collins equipment.

Collins Collectors Assoc.

P.O. Box 840924
Pembroke Pines, FL 33084

Emphasis: Collecting and Restoration

- Focus is on Collins equipment.

Collins Collector Mag.

Jay Roman
3820 Jackson Blvd.
Rapid City, ND 57702

Emphasis: Collecting and Restoration

- Focus is on Collins equipment.

DX News

National Radio Club
P.O. Box 118
Poquonock, CT 06064-0118

Emphasis: Medium Wave DXing.

- Occasional receiver reviews.

DX Ontario

Ontario DX Association
P.O. Box 161, Station A
Willowdale, ON M2N 5S8
Canada

Emphasis: Shortwave DXing.

- Occasional receiver reviews.

Eddystone Newsletter

Eddystone User Group
c/o Eddystone Radio
Alvechurch Road
Birmingham B31 3PP, England

Emphasis: Collecting and Restoration

- Focus is on Eddystone equipment.

Electric Radio

14643 County Road G
Cortez, CO 81321-9575

Emphasis: Collecting and Restoration

- Focus is on vintage ham & military gear.

Hollow State Newsletter

Ralph Sanserino
P.O. Box 1831
Perris, CA 92572-1831

Emphasis: Collecting and Restoration

- Focus is on tube equipment, especially the Collins R-390 and variants.

I.R.C.A.

Intl. Radio Club of America
P.O. Box 1831
Perris, CA 92572-1831

Emphasis: Medium Wave DXing.

- Occasional receiver reviews.

N. American SW Assoc.

45 Wildflower Rd.
Levittown, PA 19057

Emphasis: Shortwave Broadcast DXing.

- Frequent receiver reviews.

5 Restoration & Repair

There are many rewards to owning and collecting older radios. But there is a downside too. Obtaining parts and service for vintage radios can be a difficult. If the manufacturer has been out of business for thirty years, it can be a real challenge. It is unlikely your neighborhood TV-VCR repair shop will be able to help you with your ailing HQ-150. Fortunately there are companies that specialize in servicing and restoring older shortwave and amateur receivers. It is important to realize and appreciate that these special skills do command a price. A professional restoration can preserve history and create an heirloom that can be appreciated for generations.

The following companies have recently placed ads in leading radio magazines offering radio service or restoration. It is important to contact them by mail or phone **before** sending in your receiver. When shipping anything electronic remember to "double box" the device with plenty of extra packing ("foamies"). An extra dollar of packing material may save costly repairs and hours of aggravation. Please be sure to fully insure the package.

Please note that the author is **not** personally familiar with all the listed companies and cannot be responsible for their workmanship, ethics or business practices.

**Antique Radio Restoration
and Repair**

Bob Eslinger
20 Gary School Rd.
Pomfret Center, CT 06259

Specialty: *General*

Email: radiodoc@neca.com
Telephone: 860 928-2628

Tom Miller Electronics
22516 S. Normandie SP41B
Torrance, CA 90502

Specialty: *General*

Telephone: 310 320-8980

RTO Electronics
5585 Hochberger
Eau Claire, MI 49111

Specialty: *Heathkit*

Telephone: 616 461-3057

Great Northern
Alan Jespersen
P.O. Box 17338
Minneapolis, MN 55417

Specialty: *General*

Telephone: 612 727-2489

W3HM Radio Labs
Rt. #3, Box 712
Harpers Ferry, WV 25425

Specialty: *Collins 75A-4*

Telephone: 304 876-6483

Bavarian Radio Works
Ross A. Hochstrasser
162 Beulah St.
Whitman, MA 02382

Specialty: *Grundig, Philips,
Siemens, etc.*

Telephone: 617 447-4299

Sound In Mind

Dee Almquist W4PNT
534 W. Main St.
Waynesboro, VA 22980

Specialty: *Tube sets.*

Telephone: 800 755-2365

Miltronix

Rick Mish
P.O. Box 3541
Toledo, OH 43608

Specialty: *Collins R-390/A*

Telephone: 419 255-6220

David Knepper

P.O. Box 34
Sidman, PA 15955

Specialty: *Collins*

Telephone: 419 255-6220

Chuck Rippel WA4HHG

2341 Herring Ditch Rd.
Chesapeake, VA 23323

Specialty: *Collins R-390A*

Telephone: 804 485-9660

Jim Clark

1292 Starboard
Okemos, MI 48864

Specialty: *General*

Telephone: 517 349-2249

Dennis Brothers WA0CBK

H.C. Box 1
Potter, NE 69156-9501

Specialty: *Collins 51S-1*

Telephone: 308 879-4552

If you elect to perform your own service an excellent source for tubes, parts and supplies is:

Antique Electronic Supply

6221 S. Maple Av.

Tempe, AZ 85283

Telephone: 602 820-5411

6 Allied

The **Allied Radio Company** was established over 75 years ago and has been a leading mail-order supplier of radios, electronics and parts. Until fairly recently, Allied carried most major lines of shortwave and amateur equipment, plus their own private label, Allied line and their famous line of Knight-Kit radios. Although Knight-Kit, was an exclusive property of Allied, they have their own Chapter in this book.

By 1970 Allied had 41 company stores. It was purchased from then owners, LTV Ling Altec, by Tandy Corporation and combined with the Radio Shack chain to become Allied Radio Shack. Department of Justice anti-trust concerns made this a short marriage. Tandy quickly sold the stores to Schaark Electronics.

The Allied house-brand receivers were fairly unexciting as a group. The Allied AX-190 and SX-190's however, were fairly state of the art for their time. These models were sturdily built and performed well. They are considered the best models ever to carry the Allied label. For someone on a budget, desiring strictly shortwave broadcast or strictly amateur radio analog coverage, they still represent a good value and can be bought for a song.

Today Allied produces one of the most comprehensive and informative electronic parts catalogs in the world (1 800 433-5700).

Allied Radio

100 N. Western Ave.
Chicago, IL

Allied Radio Shack

100 N. Western Ave.
Chicago, IL

Allied Electronics

A Subsidiary of Hall-Mark Elec.
7410 Pebble Dr.
Fort Worth, TX 7618

ALLIED

A2508

Shortwave Broadcast Band Receiver

Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Tone Control
- MW Ferrite Antenna
- Dial Lamp
- Speaker 4"
- AFC [FM]

Specifications:

Coverage SWBC. See Comments. Modes AM/FM-W/FM-N
Antenna Input Terminals

Circuit Complement:

1 Integrated circuit, 1 MOSFETs, 12 transistors, 8 diodes, 1 zener diode and 2 thermistors.

Comments:

Coverage: .15-.4, .55-1.6, 5.9-6.25, 9.45-9.85, 11.45-12 and 15.05-15.55 MHz. The A2508 also covers the FM broadcast band 88-108 MHz and VHF "high" band 152-176 MHz.

Allied stock number 20-5508.

Made In: Japan 1970-1971

Voltages: 117 AC 15W
or 12 VDC

Readout:  Analog

Physical: 12x4.75x8.75" 11 Lbs.
325x121x223mm 5 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Common

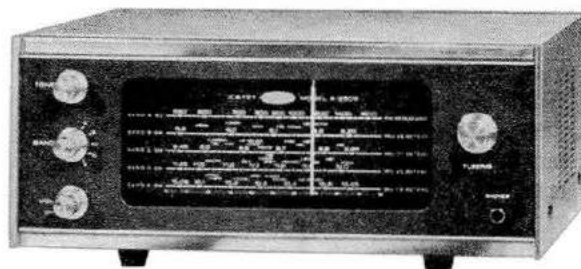
	New	Used
Price:	\$119	\$40
Rating:	★★★	★★

ALLIED

A2509

Shortwave Broadcast Band Receiver

Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Tone Control
- MW Ferrite Antenna
- Dial Lamp
- Speaker 4"

Specifications:


Coverage SWBC. See Comments. Modes AM/FM-N
Antenna Input Terminals

Comments:

Coverage: .15-.4, .55-1.6, 5.9-6.25, 9.45-9.85, 11.45-12 and 15.05-15.55 MHz. Also covers 152-176 MHz (VHF high band).
Allied stock number 20-5509

Made In: Japan 1971

Voltages: 117 AC 50W
or 12 VDC

Readout:  Analog

Physical: 12x4.75x8.75" 9 Lbs.
325x121x222mm 4 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Common

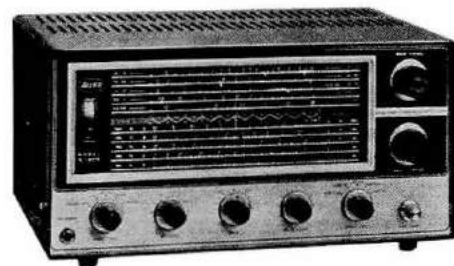
	New	Used
Price:	\$79	\$40
Rating:	★★★	★★

ALLIED

A2515

General Coverage Communications Receiver

Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Tone Control
- Bandsread
- RF Gain
- ANL
- AVC
- Antenna Trimmer
- Dial Lamp
- Mute Terminal
- BFO
- Flywheel Tuning

Specifications:

Coverage 150 - 30000 kHz. Modes AM/CW/SSB
Selectivity 1.8 kHz. -6dB. IF Rejection 40 dB
Sensitivity 2μV 10 dB S/N Noise Ratio 30 dB down
Audio Out 1.3 W Antenna Input . Terminals
IF 455 kHz

Circuit Complement:

10 Transistors, 12 diodes and 1 zener diode. Two FET RF stages, product detector and push-pull audio amp.

Accessories:

Speaker

Comments:

Ranges: .15-.4, 550-1.6, 1.6-4.8, 4.8-14.5 and 10.5-30 MHz. Reception gap from 400 kHz to 550 kHz. Requires a speaker.

Variants:

Model A2515A ^S120 utilizes two MOSFETS and has a 1.8 kHz mechanical filter.

Made In: Japan 1967-1971

Voltages: 117 AC 50/60 Hz 10W
or 12 VDC

Readout:  Analog

Physical: 15x7.7x10" 20 Lbs.
381x195x254mm 9 kg

Status: Inactive Manufacturer
Discontinued Model

Reviews: QST February 1969
CQ July 1969
Ham Radio January 1969

	New	Used
Price:	\$100	\$40
Rating:	★★★	★★★

ALLIED

A2516

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 7 Tubes plus Semiconductors.



Features:

- S-Meter
- RF Gain
- Standby
- Preselector
- ANL
- 28:1 Tuning Ratio
- 1/4" Head. Jack
- AVC
- Line Out 500 ohm
- Mute Terminal

Specifications:

Coverage Ham. See Comments. Modes AM/CW/SSB
Selectivity 1.5 kHz. -6dB. IF Rejection >50 dB
Sensitivity 2 μ V 10 dB S/N Image Ratio >50 dB
Audio Out 1 W Dial Accuracy \pm 1 kHz.
IF 8900-9500, 455 kHz Antenna Input . Terminals

Circuit Complement:

6BZ6 RF Amp, 6BL8 1st Mixer/Osc., 6BE6 2nd Mixer, 6BA6 IF, 6BA6 IF, 6AQ8 Product Detector/BFO, 6BM8 AF Output plus semiconductors. Crystal controlled first oscillator, mechanical filter.

Accessories:

A-2514 Speaker Calibrator

Comments:

Coverage: 3.5-4, 7-7.3, 14-14.35, 21-21.45, 28-28.5, 28.5-29.1 and 29.1-29.7 MHz plus 9.6-10 MHz for WWV. Provides 1 kHz dial accuracy.

Allied stock #20-5516

Variants:

See Kenwood JR-500SE.

Made In: Japan 1969-1971

Voltages: 117/230 AC 50/60 Hz 75W or 12 VDC

Readout:  Analog Lin.

Physical: 13x7x10" 18 Lbs.
330x178x254mm 8.16 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Common

Reviews: QST January 1970

	New	Used
Price:	\$170	\$50-60
Rating:	★★★	★★

ALLIED

AX-190

Amateur Band Communications Receiver

Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute Terminal
- Q-Multiplier
- S-Meter
- Noise Limiter
- VFO Out Jack
- Preselector
- AGC
- HFO Out Jack
- Record Jack
- Calibrator 25/100 kHz
- Speaker Jack

Specifications:

Coverage Ham. See Comments. Modes AM/LSB/USB(CW)
Selectivity 4 kHz. -6dB. Spur.Reject. ... >50 dB
Sensitivity5 μ V SSB/CW 10 dB S/N Image Ratio >60 dB
Inter. Freqs. 2420-2920 & 455 kHz Image Rej. >60 dB
Audio Out 1 W 8 ohm Antenna Input . SO-239 50-75 ohm
Stability 500 Hz after warm-up

Circuit Complement:

4 FETs, 22 transistors, 13 diodes, 2 zener diodes and 2 thermistors. Crystal controlled first oscillator.

Accessories:


SP-190 Speaker

Comments: Coverage: 3.5-4, 7-7.5, 14-14.5, 15-15.5, 21-21.5, 27-27.5, 28-28.5, 28.5-29, 29-29.5 and 29.5-30 MHz. One crystal position available for optional 500 Hz band (3.5-10 MHz.). Excellent dial accuracy of \pm 500 Hz. Requires a speaker. European version is 230 VAC 50/60 Hz. May be labelled as Realistic AX-190.

Allied-Radio Shack stock #20-5155

Made In: Japan 1971-1973

Voltages: 110-120 AC 60 Hz 10 W or 12 VDC

Readout:  Analog Lin.

Physical: 15x7x10" 20 Lbs.
381x178x254mm 9 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Abundant

Reviews: CQ May 1972
Ham Radio June 1972

	New	Used
Price:	\$250	\$90-110
Rating:	★★★	★★★



SX-190

Shortwave Broadcast Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Preselector
- Record Jack
- RF Gain
- Noise Limiter
- AGC
- Calibrator 25/100 kHz
- Q-Multiplier
- Mute Terminal
- Speaker Jack
- VFO Output Jack

Specifications:

CoverageSWBC. See Comments. Modes AM/LSB/USB(CW)
Selectivity 4 kHz. -6dB. Spur.Reject. ... >50 dB
Sensitivity5µV SSB/CW 10 dB S/N Image Ratio >60 dB
Stability 500 Hz after warm-up Image Reject .. >50 dB
Inter. Freqs. 2420-2920 & 455 kHz Antenna Input . SO-239 50-75 ohm
Audio Out 1 W 8 ohm

Circuit Complement:

4 FETs, 22 transistors, 13 diodes, 2 zeners and 2 thermistors. Crystal controlled first oscillator.


Accessories:

SP-190 Speaker

Comments: Coverage: 3.5-4, 5.7-6.2, 7-7.5, 9.5-10, 14-14.5, 15-15.5, 17.5-18 and 27-27.5 MHz. Two crystal positions available for two optional additional 500 Hz band (one in the range of 3.5 to 10 MHz. and one in the range of 10 to 30 MHz.). Dial accuracy is ±500 Hz. Requires a speaker. European version is 230 VAC 50/60 Hz. The most serious receiver ever to be sold under the Allied label. May be labelled as Realistic SX-190. Allied-Radio Shack stock #20-5190.

Made In: Japan 1971-1973

Voltages: 110-120 AC 60 Hz or
12 VDC

Readout:  Analog Lin.

Physical: 7x15x10" 20 Lbs.
381x178x254mm 9 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Common

Reviews: CQ May 1972
Popular Elec November 1972
NASWA December 1991

	New	Used
Price:	\$250	\$100-140
Rating:	★★★★	★★★

7 Ameco

For most of **Ameco's** long history, they have produced accessory items for the amateur and shortwave markets. In the 1960's however, they produced a couple of receivers and even manufactured some transmitters.

The entry level R5 was introduced in 1967, followed by the improved R5A in 1969. These early solid-state receivers covered medium wave, shortwave and even extended to 54 MHz to include the 6 meter amateur band.

For a period of time Ameco and Gonset were owned by Aerotron. Aerotron is now owned by Siemens.

Ameco no longer manufactures receivers, but does produce amateur accessories, code keys, filters and offers training materials and books for amateur radio and electronics enthusiasts.

Ameco Div. of Aerotron

U.S. Highway 1N
Raleigh, NC 27608

1968

Ameco Corporation

224 East Second St.
Mineola, NY 11501



R5

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- ANL
- RF Gain
- Q-Mult Input Jack
- Fine Tuning
- 6M Coverage
- BFO
- Bandspread 0-10
- Dial Lamp

Specifications:

Coverage540 - 54000 kHz Modes AM/CW
Antenna Input Terminals

Accessories:

S-5 Speaker (shown below) BK-5 Battery Kit

Comments:

Ranges: .54-1.35, 1.35-3.5, 3.5-9, 9-23 and 23-54 MHz.
The BK-5 Battery Kit holds six D cells. Not a sensitive receiver. Gray metal case.


Variants:

Model R5-K was kit form version \$50-65.



Made In: United States 1967-1969

Voltages: 105-125 AC 50/60 Hz

Readout:  Analog

Physical: 6x12x9" 12 Lbs.
152x305x229mm 5.4 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: *Electronics Illustr.* Sept. 1968

	New	Used
Price:	\$70-90	\$40-45
Rating:	★★★	★



R5A

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- ANL
- RF Gain
- Bandspread 0-10
- Fine Tuning
- 6 M coverage
- Mute Line
- Q-Mult Input Jack
- Speaker
- Dial Lamp
- BFO

Specifications:

Coverage 540 - 54000 kHz Modes AM/CW
Antenna Input Terminals

Accessories:

S-5 Speaker (shown below) BK-5 Battery Kit

Comments:

Ranges: .54-1.35, 1.35-3.5, 3.5-9, 9-23 and 23-54 MHz.
The Owner's Manual proposes that this receiver is capable of single sideband and narrowband FM reception. Gray metal case.


Variants:

Model **R5A-K** was kit form version.



Made In: United States 1969-1970

Voltages: 105-125 AC 50/60 Hz

Readout:  Analog

Physical: 6x12x9" 12 Lbs.
152x305x229mm 5.4 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

	New	Used
Price:	\$100	\$50-80
Rating:	★★★	★

A.O.R. is relatively new to the North American receiver scene. They entered the market with VHF-UHF scanners that initially earned them a spotted reputation. In recent years the quality and design of A.O.R. scanners has improved substantially.

The AR-2515 was AOR's first successful offering of a wideband receiver. Covering 500 kHz to 1500 MHz, this radio offered a big chunk of the spectrum to the listener at an affordable price and in a very compact package. As with most wideband receivers of this class, the medium wave and shortwave performance was marginal. Such radios are satisfactory for the scanner enthusiasts who wants to dabble in shortwave. However the serious shortwave listener who wants to dabble in VHF-UHF is better off buying a dedicated shortwave receiver and a separate scanner. These wideband receivers did improve with subsequent models leading to the current R-3000A.

The AR3030 was the first traditional shortwave receiver offered by AOR. This compact and capable receiver performs well on shortwave but never found a large following outside the portable user market.

AOR's most sophisticated, interesting and controversial offering is the new AR7030. This somewhat radical receiver, designed by John Thorpe of Lowe HF-225E fame, is manufactured in England.

A.O.R. Ltd.

2-6-4 Misuji, Taito-Ku
Tokyo 111, Japan



AR-2515

Wideband Broadcast Receiver (Scanner)

Quadruple Conversion Superheterodyne. Solid State.



Features:

- Mini Head. Jack
- S-Indicator
- Squelch
- Backlit LCD
- Priority
- Dial Lamp
- Key Lock
- Atten. -10 dB
- Keypad
- 1984 Memories
- Scan/Sweep
- Speaker
- Ext. Spkr Jack
- RS232 Jack

Specifications:

Coverage 5 - 1500 MHz. Modes AM/FM-N/FM-W
Sensitivity <3µV (1SW AM). IF 750, 45.03, 5.5, .455 MHz
Audio Out 1 W 10% distortion Antenna Input . BNC

Accessories:

MS-2515 Speaker BFO-1 BFO Option EG-1 Control Software

Comments:

The memories store: frequency, mode, bandwidth, AGC and attenuator settings. Tuning steps: 5, 12.5 and 25 kHz. The AR-2515 scans at 36 channels per second. Please note that shortwave coverage does not start until 5000 kHz. The filters are a bit wide for shortwave. A stronger performer as a scanner than as a shortwave receiver.

Made In: Japan 1989-1991

Voltages: 12 VDC or supplied
110 VAC Adapter

Readout: **00001.** Digital LCD

Physical: 5.25x3.12x7.875 2.8 Lbs.
133x79x200mm 1.3 kg

Status: Active Manufacturer
Inactive Model

Rarity: Common

Reviews: *Monitoring Times* May 1989

	New	Used
Price:	\$599-799	\$420-440
Rating:	★★★	★★



AR-3000

Wideband Broadcast Receiver (Scanner)

Quadruple Conversion Superheterodyne. Solid State.



Features:

- Mini Head. Jack
- S-Indicator
- Squelch
- 2 Tuning Speeds
- Priority (4)
- Dial Lamp
- Key Lock
- Atten. -10 dB.
- Keypad
- 400 Memories
- Scan/Sweep
- Speaker
- Ext. Spkr Jack
- RS232 Jack
- Record Jack
- Clock - Timer

Specifications:

Coverage1 - 2036 MHz. Modes AM/CW/LSB/USB/FM-N/W
 Selectivity 180/12/2.4 kHz -6dB. IF Rejection 70 dB
 Sensitivity <.25µV (2-1800 MHz).
 Audio Out 1.2 W 4 ohm Antenna Input . BNC 50 ohm

Accessories:

MM-1 Mobile Bracket

Comments:

The memories store: frequency, mode, bandwidth, AGC and attenuator settings. Four scan banks of 100 channels each. Tuning increments as low as 50 Hz. Scan rate is 20 channels per second. Sweep (search) rate is 20 steps per seconds.

Made In: Japan 1989-1992

Voltages: 12 VDC .5 A or supplied
110 VAC Adapter

Readout: **00001.** Digital LCD

Physical: 5.5x3x7.75" 2.6 Lbs.
138x80x200mm 1.2 kg

Status: Active Manufacturer
Inactive Model

Rarity: Common

Reviews: *Monitoring Times* July 1990

	New	Used
Price:	\$799-1095	\$425-450
Rating:	★★★★	★★★



AR-3000A

Wideband Broadcast Receiver (Scanner)

Quadruple Conversion Superheterodyne. Solid State.



Features:

- Mini Head. Jack
- S-Indicator
- Squelch
- Remote Switch
- Priority (4)
- Dial Lamp
- Key Lock
- Atten. -20 dB.
- Keypad
- 400 Memories
- Scan/Sweep
- Speaker
- Ext. Spkr Jack
- RS232 Jack
- Record Jack
- Clock - Timer
- Priority Channel
- Sleep Timer

Specifications:

Coverage1 - 2036 MHz. Modes AM/CW/LSB/USB/FM-N/W
 Selectivity 180/12/2.4 kHz -6dB. IF Rejection 70 dB
 Sensitivity <.25µV (2-1800 MHz). Stability +5 ppm (-10 to 50°C).
 Audio Out 1.2 W 4 ohm Antenna Input . BNC 50 ohm

Accessories:

MM-1 Mobile Bracket

Comments:

The memories store: frequency, mode, bandwidth, AGC and attenuator settings. Four scan banks of 100 channels each. Tuning increments as low as 50 Hz. Provides faster scanning than the AR-3000. Scan rate is 50 channels per second. Sweep (search) rate is 50 steps per seconds. Quadruple conversion on WBFM only. Later production units sold in America will have the cellular frequencies blocked.

Made In: Japan 1993-1997

Voltages: 12 VDC .5 A or supplied
110 VAC Adapter

Readout: **00001.** Digital LCD

Physical: 5.5x3x7.75" 2.6 Lbs.
138x80x200mm 1.2 kg

Status: Active Manufacturer
Inactive Model

Rarity: Common

Reviews: *Monitoring Times* June 1994

	New	Used
Price:	\$899-1099	\$425-475
Rating:	★★★★	★★★



AR-3030

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Keypad
- Ext. Spkr Jack
- BFO
- Speaker 2.6"
- Dual VFOs
- S-Meter
- ANL
- 100 Memories
- IF Out Jack
- RS232 Port
- Memory Pass
- Squelch
- Tone (2 Pos.)
- Scanning
- Tilt Stand
- Record Jack
- Backlit Display
- AGC FST/SLO
- Atten. -10/-20 dB
- Front speaker
- Sync. AM
- Record Activation
- Backlight On/Off

Specifications:

Coverage 30 - 30000 kHz. Modes AM/LSB/USB/FAX/FM
Selectivity 6/2.4/_ kHz -6dB [15 FM] IF Rejection 70 dB
Sensitivity <.5µV (1.8-30 MHz SSB) Dyn. Range 100 dB @ 25 kHz spacing
Audio Out 1.8 W 10% distortion Antenna Input . BNC & Terminals

Accessories:

.5 kHz Filter 2.5 kHz Filter VHF Converter 108-140 MHz.
Control software 4.0 kHz Filter VHF Converter 140-170 MHz.

Comments:

The LCD is backlit. The memories store: frequency, mode, bandwidth, AGC, tone and attenuator settings. Tuning steps: 1 MHz, 1 kHz, 100 Hz, 10 Hz and 5 Hz. The 6 kHz filter is Collins. Battery life from the internal AA cells is less than one hour. A very well built and capable receiver for its compact size.

Made In: Japan 1994-1997

Voltages: 11-16 VDC .7 A or
8 AA cells internal

Readout: **00000.01** Digital LCD
Physical: 10x3.55x9.5" 4.8 Lbs.

254x90x241mm 2.2 kg

Status: Active Manufacturer
Active Model

Rarity: Abundant

Reviews: *Passport* 1995-1997
WRTH 1995

Pop. Comm. Sept. 1994

Mon. Times January 1995

R.D.I. Whitepaper

SW Magazine Jan. 1994

	New	Used
Price:	\$599-849	\$450-550
Rating:	★★★★	★★★★



AR-5000

Wideband Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Keypad
- Ext. Spkr Jack
- BFO
- HF Preamp
- Voice Scan
- 5 VFOs
- Keypad
- S-Meter
- ANL
- 1000 Memories
- 10.7 IF Out Jack
- RS232 Jack
- Lock
- Duplex Offset
- Sweep
- Squelch
- Tone
- Scanning
- Mute Line
- Tilt stand
- Priority
- Memory Pass
- Audio Filter
- Alphanumeric Mem.
- Atten. -10 dB
- Speaker
- 10 MHz Stnd. Input
- Dial Torque Adj.
- Sleep 1-120 min
- Detector Output
- AGC [FM]

Specifications:

Coverage 10 kHz - 2600 MHz Modes AM/FM-N/FM-W/LSB/USB/CW
Selectivity 220/110/40/15/6/3/_ kHz -6dB. IF 622.2 MHz, 10.7 MHz, 455 kHz
Sensitivity <.56µV (1.8-30 MHz). Stability ±1 PPM
Audio Out 1 W 8 ohms 10% dist. Antenna Input . SO-239 and N

Accessories:

MF500 Collins 500 Hz MF2.5 Collins 2500 Hz MF6.0 Collins 5500 Hz
CTCSS Decode DTMF

Comments:

Tuning steps: 1, 10, 50, 100, 500 Hz, 1, 5, 6.25, 9, 10, 12.5, 20, 25, 30, 50, 100 kHz and user defined. Scan rate: 25 or 50 channels/second. Non-governmental units sold in the United States have the cellular frequencies blocked.

Made In: Japan 1996-1997

Voltages: 11-16 VDC 1A or supplied
120 VAC Adapter

Readout: **00000.01** Digital LCD

Physical: 8.5x3.5x10" 10A Lbs.
216x89x254mm 4.5 kg

Status: Active Manufacturer
Active Model

Rarity: Too new for used market.

	New	Used
Price:	\$1900-2000	④
Rating:	⑧	⑧



AR7030



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- P.B.T. ± 5 kHz
- Ext. Spkr Jack
- Clock-Timer
- S-Indicator
- Synchronous Det.
- 100 Memories
- LCD Contrast
- Timer Contacts
- Squelch
- Tone
- Infrared Remote
- Record Jack
- RS-232 Jack
- AGC
- Atten. (5 Pos.)
- Speaker
- Tilt Stand
- Scan

Specifications:

Coverage 0 - 32000 kHz. Modes AM/LSB/USB/CW/FM/FSK
Selectivity 10/7/4.5/2.2/ / kHz -6dB. Stability ± 2.5 PPM
Sensitivity $< .3 \mu V$ 1.5-32 MHz SSB Dyn. Range > 100 dB AM 7 kHz
Audio Out 1.8 W 10% distortion Antenna Input . SO-239 and Terminals

Accessories:

Notch Filter Option Wide Variety of Filters

Comments:

All receiver parameters may be displayed on the two-line, dot matrix alphanumeric, backlit LCD. This receiver is highly adjustable despite the dearth of buttons. The memories store: frequency, mode, bandwidth, PBT, squelch BFO and scan settings. Tuning steps: 1 MHz, 1 kHz, 100 Hz, 10 Hz and 5 Hz. The supplied infrared remote control allows tuning, volume, tone, keypad, memory functions, PBT and filter selection. The menu oriented operation and multifunction controls of this receiver are defined as an ergonomic nightmare by some traditionalists. A receiver you will love or hate. A very inconsistently reviewed radio. Robust metal cabinet.

Made In: England 1996-1997

Voltages: 15 VDC 500 ma.
Supplied with AC adapter.

Readout: **00000.01** Digital LCD

Physical: 9.45x3.54x10" 4.9 Lbs
240x90x255mm 2.2 kg

Status: Active Manufacturer
Active Model

Rarity: Scarce

Reviews: *Passport* 1997
Monitoring Times April 1996
NASWA December 1996

	New	Used
Price:	\$1149-1349	\$750-900
Rating:	★★★★	★★★★

9 Bearcat

The **Electra Company**, best known for their famous Bearcat scanners, decided to test the waters in 1983 with a shortwave communications receiver, the Bearcat DX-1000. The DX-1000 was not able to gather the same respect that Bearcat scanners had earned.

The Electra Company was acquired by Uniden in 1985.

Electra Company
Division of Masco Corp.
300 E. County Line Rd.
Cumberland, IN 46229

1983-1984

Bearcat

DX-1000

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Noise Blankers
- Keypad Entry
- AGC FST/SLO
- Dimmer
- S-Meter
- Mute Terminal
- 10 Memories
- Squelch
- 2 Tuning Rates
- Tone Control
- Record Jack
- Fine Tuning
- Dual 24 Hr Clock
- Ext. Spkr. Switch
- Attenuator -20/40 dB
- Record contacts
- Tilt Carry Handle
- Telescopic Whip

Specifications:

Coverage 10 - 30000 kHz.	Modes AM/LSB/USB/CW/FM
Selectivity 12/6/2.7 kHz -6dB.	Stability ± 100 Hz
Sensitivity $< .5 \mu V$ 1-30 MHz CW	IF Rejection > 60 dB (@7 MHz).
Image Ratio ... > 70 dB .15-30 MHz	IF 40.455 MHz, 455 kHz
Audio Out 2W 10% distortion	Antenna Input . SO-239 & Terminals.

Comments:

Memories store frequency only. Two speed tuning: 1 kHz or 100 Hz on the main dial or ± 2 kHz or ± 150 Hz on the fine-tuning knob. Filter may be selected independent of mode. This receiver did not live up to the manufacturer's specifications. Electra produced an amusing advertising chart to illustrate why the DX-1000 was superior the Japan Radio NRD-515 (... true if you rate a radio by the number of buttons on it). The manufacturer at the time was Electra (now Uniden).

Made In: Japan 1983-1984

Voltages: 120/240 AC
12 VDC or 8 D cells
3 AA cells for memory

Readout: **00001.** Digital LED

Physical: 14.5x5x9" 17.6 Lbs.
370x130x240mm 8 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: *WRTH* 1985
Passport 1985/86, 1987
Ham Radio Today Mar. 1987

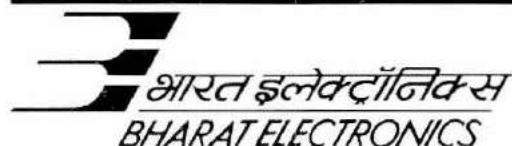
	New	Used
Price:	\$500-550	\$150-250
Rating:	★★	★

10 Bharat Electronics

Bharat Electronics Limited was founded in 1954 and is a government of India enterprise. Bharat Electronics produces a wide range of products in the areas of defence communications, radars and sonars, broadcasting equipment, medical electronics, satellite equipment and electronic components. Nine major manufacturing plants are located in Bangalore, Ghaziabad, Pune, Machilipatnam, Panchkula, Kotdwara, Taloja, Madras and Hyderabad.

Bharat Electronics employs over 17,000 workers and enjoys annual sales of over 10000 million Rs.

Bharat Electronics Ltd.
Trade Centre
116/2 Race Course Road
Bangalore 560 001,
India



HS412

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4 Head. Jack
- RF Gain
- IF Out Jack
- Speaker Out
- S-Meter
- BFO ± 1.5 kHz
- Dial Lock
- Spinner Knob
- Speaker
- 3 Tuning Speeds
- Rack Handles
- Fine Tuning
- Speaker Switch
- Line Out 600 ohm
- AGC MAN/FST/MED/SLO
- Modular Construction

Specifications:

Coverage 1500 - 30000 kHz
Selectivity 10/6/3/1.3/.3 kHz -6dB.
Sensitivity <2 μ V SSB
I.F.s 35.75 MHz, 1.75 MHz
Audio Out 5 W 15 ohm 5% dist.
Modes AM/CW/SSB
Stability $\leq \pm 15$ Hz
IF Rejection >80 dB
Image Rej. >90 dB 1.5-30 MHz
Environment ... -20° to +55° C 95% Humid

Accessories:

SRE 32 ISB Option

Comments:

This model is currently in production with a lead time of six months.

Variants:

The model **HS412A** has ISB. Model **HS412B** has an Low Frequency adapter to permit reception down to 15 kHz. Model **HS412C** has both ISB and the LF adapter. The **HS412D** is designed with a TCXO.

Made In: India 1990-1997

Voltages: 115/230 VAC 50 Hz
90W or 24 VDC

Readout: **00000.01** Digital LED

Physical: Cabinet Version:
21.85x11x19.125" 121 Lbs
555x280x486mm 55 kg
Rack Version:
19x8.7x16.3" 88 Lbs
483x221x415mm 40 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	\$13,500	②
Rating:	⑥	⑥

11 Cardwell

The **Allen D. Cardwell Manufacturing Corporation** was primarily a manufacturer of capacitors and electronic parts. The Cardwell Fifty-Four was their first and only attempt to manufacture a complete receiver. It was only on the market for two years.

Cardwell Capacitor is owned by the Kjeldsen family that also owns Pax Manufacturing which bought out the Hammarlund Company assets.

The Allen D. Cardwell Mfg. Corp.
97 Whiting St.
Plainville, Conn. 1945-1947



Cardwell

CR-54



General Coverage Communications Receiver
Double Conversion Superheterodyne. 18 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- Squelch
- Turret Type Display
- RF Gain
- ANL
- Mute Line
- Cal. 100/1000 kHz.
- Ext. Spkr Jack
- Panoramic Jack
- Bandsread
- Spinner Knobs

Specifications:

Coverage 540 - 40000 kHz Modes AM/CW
Selectivity 5 Position Stability <25 PPM per degree C.
Audio Out 8 W Antenna Input . Terminals

Circuit Complement:

The five position selectivity is three with crystal and two without.

Accessories:

Coil Strip for coverage to 54 MHz.

Comments:

Supplied with external speaker. An extremely rare and collectable receiver.

Made In: United States 1946-1947

Voltages: 115 VAC
50/60 Hz

Readout:  Analog

Physical: 18.25x11x16" 70 Lbs.
463x279x406mm 31.7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

12 Collins

The **Collins Radio Company** was founded in 1932 by Arthur A. Collins WØCXX. The high quality amateur transmitters gained a reputation that led to the successful expansion of the Company into broadcast, commercial and military markets. The Collins company grew rapidly in the 1940s and became a major communications equipment supplier during World War II. Many military designs would later find an application in amateur models.

The first post War amateur receiver was the 75A (75-A1). This model produced stability and frequency accuracy not previously available. This design would prevail for the ten year period 1945 to 1955 covering models 75A-1, 75A-2, 75A-3 (introducing the famous Collins mechanical filter) and finally the venerable 75A-4. The general coverage version of this series began with the 51-J1 through 51-J4. The 51-J1 was a highly respected radio when introduced in 1949, but with a price of \$875 (a very large sum in 1949!), it could only be acquired by the most dedicated.

In 1958 the legendary amateur S line was introduced. It represented the finest amateur equipment of the time. The general coverage 51-S1 produced from 1959 to 1972 can legitimately compete with many of today's finest receivers. Rockwell International acquired Collins Radio in 1974. Since 1980 the Company has focused on the military-commercial, rather than the amateur-shortwave market.

Collins Radio Company
Cedar Rapids, IA 52498



51-J

General Coverage Communications Receiver
Double Conversion Superheterodyne. 16 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Antenna Trimmer
- RF Gain
- BFO
- Mute
- AVC ON/OFF
- Dial Set Adjust
- IF Out Jack
- Standby
- Calibrator 100 kHz.
- Dial Lamp

Specifications:

- Coverage 500 - 30500 kHz
- Modes AM/CW
- Selectivity 3 - .2 kHz 5 steps
- Stability 2 kHz (After warm-up)
- Sensitivity <3µV 6 dB S/N CW
- Dial Accuracy . ±1 kHz
- Audio Out 1.5 W 4/600 ohms
- Antenna Input . Terminals 300 ohms

Circuit Complement:

Uses 70E-7A VFO

Accessories:

Speaker Table Top Cabinet

Comments: This radio is organized with thirty 1 MHz bands. The bands are displayed on a drum or turret type mechanism. Designed for 19" rack mount. Requires speaker. An outstanding general coverage receiver for its time. This model is also referred to as the **51-J1**.

Variants:

Model **51-J2** 1950 is very similar but has a toggle switch mounted to the left of the meter which selects the function of the meter as input or output (i.e., S or AF). The faceplate for the 51-J1 and 51-J2 is simply "51-J".

Mfg. In: United States 1949-1951

Voltages: 115 VAC 50/60 Hz 85W

Readout:  Analog Lin.

Physical: Cabinet Version:
21.125x12.5x13.88" 55 Lbs.
536x318x352mm 25 kg
Rack Version:
19x10.5x13" 35 Lbs
482x266x330mm 15.9 kg

Status: Active Manufacturer
Inactive Model

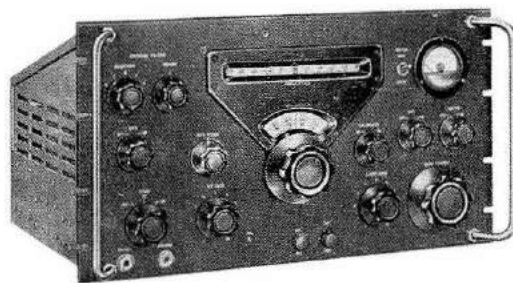
Rarity: Very Scarce

	New	Used
Price:	\$875	\$250-350
Rating:	★★★★	⑦



51-J3

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 18 Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- Dial Set Adjust
- Standby
- S/AF Meter
- AVC ON/OFF
- IF Out Jack
- ANL
- Antenna Trimmer
- Dial Lamp
- Rack Handles
- Mute
- Dial Lamp
- BFO
- Calibrator 100 kHz.

Specifications:

Coverage 540 - 30500 kHz
Selectivity 6/2-.2 kHz 5 steps
Sensitivity <5µV 10 dB S/N CW
Audio Out 1.5 W 4/600 ohms
Environment .. -40° to +65°C. 95%
Modes AM/CW/MCW
IF Rejection >50 dB
Image Rej >40 dB
Antenna Input . SO-239 50 ohms

Circuit Complement: 6AK5 RF Amp, 6BE6 1st Mixer, 6BE6 Band 1 Mixer, 6BA6 Cal Osc, 6AK5 Crystal HF Osc, 6BE6 2nd Mixer, 6BA6 1st 500 kHz IF Amp, 6BA6 2nd 500 kHz IF Amp, 6BA6 3rd 500 kHz IF Amp, 12AX7 Detector/AVC Rectifier, 12AU7 AVC Amp/IF Out Cathode Follow, 12AX7 NL/1st Audio Amp, 6AQ5 Audio Power Amp, 6BA6 BFO, 5V4 Power Rectifier, 0A2 Volt. Reg., 6BA6 VFO Osc, 6BA6 Osc Isolation Amp. Double conversion from 3.5-30.5 MHz. Uses 70E-15 VFO.

Accessories: Speaker

Comments: Designed for 19" rack mount. Requires speaker. Produced for the military under the R-388 number (shown later in this chapter). Versions built for the Navy were tropicalized and had non-magnetic cabinets. Could be converted to 51-J4s via an upgrade kit.

Mfg. In: United States 1952-1956

Voltages: 115/230 VAC 45-70 Hz
85W

Readout: Analog Lin.

Physical: Cabinet Version:
21.125x12.5x13.13" 43 Lbs.
536x317x333mm 19.5 kg

Status: Active Manufacturer
Inactive Model

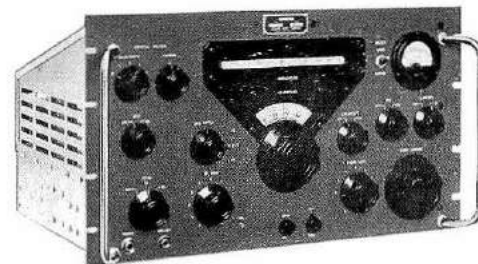
Rarity: Common

	New	Used
Price:	\$1000	\$200-410
Rating:	★★★★★	⑦



51-J4

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 19 Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- Dial Set Adjust
- Dial Lamp
- S/AF Meter
- BFO
- IF Out Jack
- Standby
- ANL
- Mute
- Rack Handles
- Antenna Trimmer
- AVC ON/OFF
- Speaker Jack

Specifications:

Coverage 540 - 30500 kHz
Selectivity Dependent on filter.
Sensitivity <3µV 6 dB S/N CW
IF Rejection ... >50 dB
Modes AM/CW/MCW
Environment ... -20° to 50°C. 95% Humid.
Image Rej >50 dB <7 MHz
Image Rej >70 dB 7-14, 40dB >14 MHz
Audio Out 2.5 W 4/600 ohms
Antenna Input . SO-239 50 ohms

Circuit Complement:

Same tube complement as the 51-J3 except for an additional 6BA6 4th 500 kHz IF Amp. Conversion: triple .54-1.5, single 1.5-3.5, double 3.5-30.5 MHz. Uses 70E-15 VFO.

Accessories:

270G-3 Speaker F500B-08 800Hz Filter F500B-14 1400Hz Filter
F500B-31 3100Hz Filter F500B-60 6000Hz Filter Tabletop cabinet

Comments:

Similar to model 51-J3, but now with mechanical filters. See concentric filter selection switch on BFO knob. Designed for 19" rack mount (most common). The inside top cover features a schematic. Requires a speaker.

Mfg. In: United States 1957-1963

Voltages: 115/230 VAC 45-70 Hz
85W

Readout: Analog Lin.

Physical: Cabinet Version:
21.125x12.5x13.13" 55 Lbs.
536x317x333mm 24.9 kg
Rack Version:
19x10.5x13" 47 Lbs
482x266x330mm 21.3 kg

Status: Active Manufacturer
Inactive Model

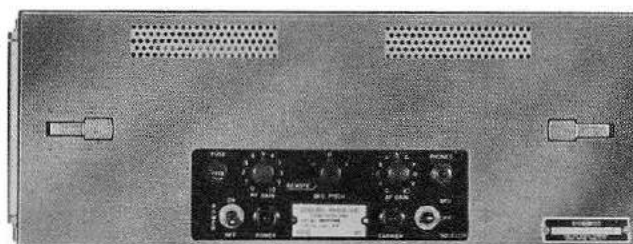
Rarity: Scarce

	New	Used
Price:	\$1200-1208	\$375-700
Rating:	★★★★★	⑦



51N-7

Fixed Frequency Communications Receiver
Single Conversion Superheterodyne. Tubes.



Features:

- 1/4" Head. Jack
- Squelch
- BFO ± 2 kHz
- RF Gain

Specifications:

Coverage 2 - 24 MHz Range	Modes AM/CW
Selectivity 4 kHz -6dB.	Image Rej >60 dB <16 MHz
Stability001%	Image Rej >50 dB >16 MHz
IF 455 kHz	Antenna Input . 100 ohm
Audio Out5 W 4/600 ohms	Environment ... 0° to 55° C. 0-95% Hum.

Comments:

This fixed frequency HF receiver is designed to operate on one frequency in the range of 2 to 24 MHz. Adjustment made by internal slugs. Utilizes Collins mechanical filter F455K40. It is designed primarily for ground-to-air and point-to-point communications. Designed for 19" rack mount. Requires a speaker.

Variants:

Model **51N-5** 1951-1952. Model **51N-7F** is a flush mount version, **51N-7R** is recessed mount and **51N-7H** is hinged mount. (Model 51M-8 is a VHF version covering 108-152 MHz.).

Mfg. In: United States 1956

Voltages: 115/230 VAC 50/60 Hz
45W

Readout:  None

Physical: 19x7x7" 17.8 Lbs.
482x178x178mm 8.1 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑧



51S-1 (R-1122/GR)

General Communications Receiver

Triple Conversion Superheterodyne. 17 Tubes plus Semi.



Features:

- 1/4" Head. Jack
- S-Meter
- Hinged Top Cover
- Calibrator 100 kHz
- RF Gain
- Rejection Tuning
- Mute
- Ext. VFO Jack
- IF Out Jack
- Dial Lock
- Zero Set
- Atten. 10 dB
- Sidetone Jack
- Dial Brake (late prod.)

Specifications:

Coverage 200 - 30000 kHz	Modes AM/LSB/USB/CW
Selectivity 5/2.75/.8 kHz -6dB.	IF 14.5-15.5, 3-2, .5 MHz
Sensitivity <.6μV 10 dB S/N SSB	Stability 100 Hz/wk (After warm-up)
Image Rej >50 dB 2-25 MHz	IF Rejection >70dB except 4.8-5.2 MHz
Audio Out 3 W 4 ohms	Antenna Input . RCA 50 ohms
	Environment ... 0° to 50° C. 0-90% Hum.

Accessories:

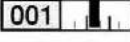
55G-1 LF/MF Presel/Spkr.	351R-1 Rack Mount Kit
CC-2 Carry Case	350D-5 Shock Mount
312B-3 Speaker	312C-1 Rack Mount Speaker
200Hz Filter	3200Hz Filter
	6000Hz Filter

Comments: Double conversion above 7 MHz. ± 400 Hz dial accuracy. Tunes in thirty 1 MHz bands. Requires a speaker. An outstanding receiver and a very long lived model. Early units had white S-Meter, later had brown S-Meter, dial-lock and round logo. Very late units substituted mechanical AM filter for T4 & T5. [¥250,000]

Variants: Model **51S-1A** (R-1430/UR) is 28VDC. Model **51S-1B** is equipped with an IF Out Jack on the rear. Model **51S-1F** is rack mounted with 2.4/.8 kHz (R-1156/GR), Also model **51S-1F** with 2.75 kHz (R-1156A/GR). Model **51S-1AF** is 28VDC, rack mounted version with 2.4/.8 or 2.75 kHz. Also see LTV model G133.

Made In: United States 1959-1975

Voltages: 115/230 VAC 50-400 Hz
125W

Readout:  Digital Mech.
to 100 kHz then Analog Lin.

Physical: 14.75x6.6x13.18" 26 Lbs.
375x167x332mm 11.8 kg

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

Reviews: WRTH 1976

	New	Used
Price:	\$1500-2567	\$1100-2100
Rating:	★★★★★	★★★★★



75A-1

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 14 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Hinged Cover
- RF Gain
- BFO
- Mute
- AVC ON/OFF
- Dial Lamp
- Standby
- Fiduciary Adj.

Specifications:

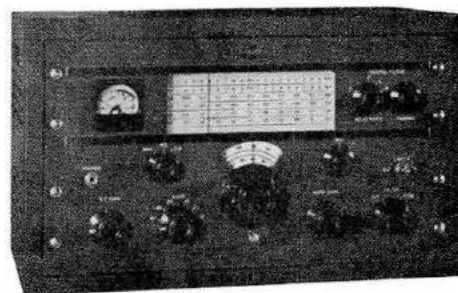
CoverageHam. See Comments. Modes AM/CW/MCW
 Selectivity4-.2 kHz 5 steps Image Rej >50 dB
 Sensitivity<1μV to 1W IF Rejection >70 dB
 Audio Out2.5 W 4/500 ohms Antenna Input . Terminals 300 ohms

Circuit Complement: 6AK5 RF Amp, 6SA7 1st Mixer, 6SK7 IF Amp, 6L7 2nd Mixer, 6AK5 Crystal Osc, (2) 6SG7 500 kHz IF Amp, 6H6 Detector/NL, 6SJ7 AVC, 6SJ7 BFO, 6SJ7 1st Audio Amp, 6V6 Audio Power Amp, 6SJ7 VFO and 5Y3GT Rectifier. Uses 70E-7 sealed VFO.

Accessories: 270G-1 Speaker 307E-1 Gear Reduction Knob
 353C-14 1.4 kHz Mechanical Filter Adapter
 353C-31 3.1 kHz Mechanical Filter Adapter
 353C-60 6 kHz Mechanical Filter Adapter

Comments:

This radio was simply referred to as the Collins 75A until the 75A-2 came out in 1950. Ranges: 3.2-4.2, 6.8-7.8, 14-15, 20.8-21.8, 26-28 and 28-30 MHz. Only the band in use is illuminated. Dial accuracy is to 1 kHz (2 kHz above 26 MHz). Virtually no backlash. St. James gray wrinkle finish. Requires a speaker.



Mfg. In: United States 1947-1950

Voltages: 115 VAC 50-60 Hz
85W

Readout: Analog Lin.

Physical: 21.125x12.25x13.9" 57 Lbs.
536x311x352mm 25.8 kg

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST September 1947

	New	Used
Price:	\$375	\$200-450
Rating:	★★★★★	⑦



75A-2

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 17 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Antenna Trimmer
- RF Gain
- BFO
- Mute
- AGC OFF/SLO/FST
- Dial Set Adjust
- CW Limiter
- Dial Lamp

Specifications:

CoverageHam. See Comments. Modes AM/CW/MCW
 Selectivity2.4-.2 kHz 5 steps Image Rej >50 dB
 Sensitivity<2μV 6 dB S/N CW IF Rejection >50 dB
 Audio Out2.5 W 4/500 ohms Antenna Input . Terminals & SO-239 hole

Circuit Complement:

Uses 70E-12 sealed VFO. Nine tuned circuits at the 455 kHz IF plus improved crystal filter.

Accessories:

270G-2 Speaker 148C-1 NBFM Adapter 8R-1 Crystal Cal. 100 kHz
 307E-1 Gear Reduction Knob

Comments:

Frequency bands: 1.5-2.5, 3.2-4.2, 6.8-7.8, 14-14.5, 20.8-21.8, 26-28 and 28-30 MHz. Drum type MHz dial. Dial accuracy is to 1 kHz (2 kHz above 26 MHz). St. James gray wrinkle finish. Requires a speaker.

Variants:

Model **75A2-2A** 1953 added mechanical filters.



Mfg. In: United States 1950-1952

Voltages: 115 VAC 50-60 Hz
85W

Readout: Analog Lin.

Physical: Cabinet Version:
21.125x12.5x13.13" 50 Lbs.
536x317x333mm 22.7 kg
Rack Version:
19x10.5x13.325"
483x267x338mm

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST July 1950

	New	Used
Price:	\$420	\$275-430
Rating:	★★★★★	⑦



75A-3

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 18 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Antenna Trimmer
- RF Gain
- BFO
- Mute
- AGC OFF/SLO/FST
- Dial Set Adjust
- CW Limiter
- Dial Lamp
- Line Out 500 ohms
- Hinged Cover

Specifications:

CoverageHam. See Comments. Modes AM/CW/MCW/FM
 Selectivity3/_ & 2.4-.2 kHz 5 steps Image Rej >50 dB
 Sensitivity<2μV 6 dB S/N CW IF Rejection >50 dB
 Audio Out2.5 W 4/500 ohms Antenna Input . SO-239 & Terminals

Circuit Complement:

6CB6 RF Amp, 6BA7 1st Mixer, 6BA7 2nd Mixer, 12AT7 Crystal Osc, (3) 6BA6 455 kHz IF Amp, 6AL5 Det/AVC Rect. 12AX7 AVC Amp/AF Amp, 6AL5 ANL, 6AQ5 Audio Power Amp, 6BA6 BFO, 5Y3GT Power Rect, 6BA6 VFO, 6BA6 VFO Isolation, 6AL5 CW NL, 0A2 Voltage Regulator, 6BA6 455 kHz IF Amp. Uses 70E-12 sealed VFO.

Accessories:

270G-2 Speaker 148C-1 NBFM Adapter 8R-1 Calibrator 100 kHz
 F445B-08 800 Hz Filter F455B-60 6 kHz Filter 307E-1 Gear Reduction Knob

Comments: Frequency bands, tuning and dial accuracy is the same as the 75A-2. St. James gray wrinkle finish. Requires speaker. The 75A-3 saw the introduction of the famous *Collins Mechanical Filter*. A two position concentric switch under the BFO knob selects the supplied 3 kHz or the optional 800 Hz mechanical filter.



Mfg. In: United States 1952-1954

Voltages: 115 VAC 50-60 Hz
85W

Readout: Analog Lin.

Physical: 21.125x12.5x13.13" 50 Lbs.
536x317x333mm 22.7 kg

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$530	\$320-500
Rating:	★★★★★	⑦



75A-4

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 22 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- PBT
- Calibrator 100 kHz
- RF Gain
- BFO
- ANL
- AGC OFF/SLO/FST
- Dial Set Adjust
- Dial Drag Adjust
- Mute
- Antenna Trimmer
- Hinged Cover
- Notch Filter

Specifications:

CoverageHam. See Comments. Modes AM/CW-SSB
 Selectivity3.1/_ / kHz Stability <300 Hz after 15 min.
 Sensitivity<1μV 6 dB S/N CW IF Rejection >70 dB
 Audio Out75 W 4/500 ohms Image Rej >50 dB
 Dial Accuracy ±300 Hz Antenna Input . SO-239 & Terminals

Circuit Complement:

6BA6 Crystal Cal., 6DC6 RF Amp, 6BA7 HF Mixer, 12AT7 Crystal Osc, 6BA7 LF Mixer, 6BA6 IF Amp, 12AX7 Q-Mult, 6BA6 IF Amp, 6BA6 IF Amp, 6AL5 AM-MCW Det, 12AU7 SSB/CW Det, 6AL5 NL, 12AT7 AF Amp, 6BA6 VFO, 6BA6 VFO, 6AL5 AVC Rectifier, 5Y3 Power Rectifier, 0A2 Voltage Regulator, 6AL5 Gain Gate/Bias Rectifier, 6BA6 BFO, 6BA6 AVC Amp and 6AQ5 AF Output. Uses 70E-24 VFO.

Accessories:

270G-2 Speaker F455J-08 800Hz Filter F455J-60 6000Hz Filter

Comments: Coverage: 1.5-2.5, 3.2-4.2, 6.8-7.8, 14-15, 20.8-21.8, 26.5-27.5, 28-29 and 29-30 MHz. Matches KWS-1 transmitter. Units with serial numbers > 4200 have a vernier tuning knob. This is a highly sought after model. [¥210,000].



Mfg. In: United States 1955-1958

Voltages: 115 VAC 50-60 Hz
85W

Readout: Analog Lin.

Physical: 17.25x10.5x15.5" 35 Lbs.
438x266x393mm 15.9 kg

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST April 1955

	New	Used
Price:	\$495-695	\$530-850
Rating:	★★★★★	⑦



75S-1

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 10 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S-Meter
- Preselector
- Crystal Cal. 100 kHz.
- RF Gain
- Mute Line
- Anti-Vox Jack
- CW Sidetone Jack
- Dial Adjust

Specifications:

CoverageHam. See Comments. Modes AM/LSB/USB/CW
 Selectivity4.5/2.1/_ kHz Stability <100 Hz after warm-up.
 Sensitivity<1µV 15 dB S/N CW IF Rejection>70 dB
 Audio Out 1.85 W 4 ohms Image Rej>50 dB
 Dial Accuracy 200 Hz Antenna Input . RCA

Circuit Complement:

6DC6 RF Amp, 6U8A 1st Mixer/Crystal Osc, 6U8A 2nd Mixer/VFO Isolation Amp, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6U8A Product Detector/BFO, 6AT6 AM Detector/AVC Rectifier/AF Amp, 6BF5 AF Output Amp, 6DC6 Crystal Cal., 6AU6 VFO, (2) 1N1084 Power Rect., 1N34A Freq. Shift switch. Uses 70K-2 sealed VFO.

Accessories:

312B-3 Speaker 312B-4 Station Control F455Q-5 500Hz CW Filter
 136A-1 NB

Comments:

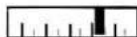
Ranges: 3.4-3.6, 3.6-3.8, 7-7.2, 7.2-7.4, 14-14.2, 14.2-14.4, 14.8-15, 21-21.2, 21.2-21.4, 21.4-21.6 and 28.5-28.7 MHz plus 2 additional 200 kHz positions for the 10 meter band. Matches 32S-1 transmitter. The supplied 2.1 kHz filter is mechanical.

Variants: Model 75S-2 has 14 additional 200 kHz positions.



Mfg. In: United States 1958-1962

Voltages: 105-125 VAC 50-60 Hz
 90W

Readout:  Analog Lin.

Physical: 14.75x6.675x11.5" 20 Lbs.
 374x169x292mm 9 kg

Status: Active Manufacturer
 Inactive Model

Rarity: Common

	New	Used
Price:	\$495-575	\$200-400
Rating:	★★★★★	★★★★



75S-3

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 11 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S-Meter
- Preselector
- Calibrator 100 kHz
- RF Gain
- Rejection Tuning
- Mute
- AGC OFF/SLO/FST
- BFO
- Anti-Vox Jack
- Dial Adjust
- CW Sidetone Jack

Specifications:

CoverageHam. See Comments. Modes AM/LSB/USB/CW
 Selectivity4.5/2.1/.25/_ kHz -6dB. Stability 100 Hz (After warm-up)
 Sensitivity<.5µV 10 dB S/N SSB Image Rej>50 dB
 Audio Out3-4 ohms Antenna Input . RCA

Circuit Complement:

6DC6 Crystal Cal., 6DC6 RF Amp, 6U8A 1st Mixer/Crystal Osc, 6U8A 2nd Mixer/Cathod Follow, 12AX7 Q-Mult., 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6U8A Prod. Det./BFO, 6AT6 AM Detector/AVC Rectifier/AF Amp, 6BF5 AF Output Amp, 6AU6 VFO, (2) 1N1084 Power Rect, 1N34A Freq. Shift switch. Uses 70K-2 sealed VFO.

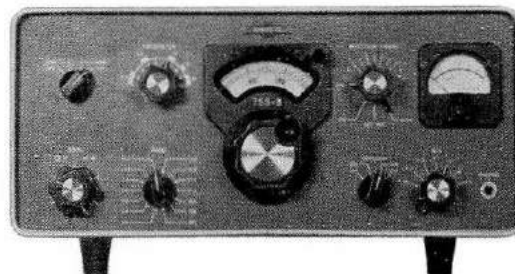
Accessories:

312B-3 Speaker 312B-4 Station Console F455Y-31 3100Hz Filter
 F455Y-40 4000 Hz Filter F455Y-60 6000 Hz Filter

Comments:

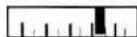
Frequency bands: 3.4-3.6, 3.6-3.8, 3.8-4, 7-7.2, 7.2-7.4, 14-14.2, 14.2-14.4, 14.8-15, 21.2-21.4, 21.4-21.6, 28.5-28.7 MHz. Matches 32S-1 transmitter. [¥100,000]

Variants: Model 75S-3A has 14 additional 200 kHz positions and an additional knob above the band select switch.



Mfg. In: United States 1961-1964

Voltages: 115 VAC 50-60 Hz
 90W

Readout:  Analog Lin.

Physical: 14.75x6.675x11.5" 20 Lbs.
 374x169x292mm 9 kg

Status: Active Manufacturer
 Inactive Model

Rarity: Scarce

Reviews: QST February 1962

	New	Used
Price:	\$680	\$300-450
Rating:	★★★★★	★★★★★



75S-3B

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 11 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S-Meter
- Preselector
- Calibrator 100 kHz
- RF Gain
- Rejection Tuning
- Dial Lamp
- AGC OFF/SLO/FST
- Standby
- Anti-Vox Jack
- Sidetone Jack
- Mute
- BFO

Specifications:

CoverageHam. See Comments. Modes AM/LSB/USB/CW
 Selectivity2.1/ / / kHz -6dB. Stability 100 Hz (After warm-up)
 Sensitivity<.5µV 10 dB S/N SSB IF Rejection >50 dB
 Image Rej.....>50 dB Antenna Input . RCA 50 ohms
 Audio Out3 W 4 ohms Environment ... 0° to 50° C. 0-90% Hum.

Circuit Complement:

6DC6 Crystal Cal., 6DC6 RF Amp, 6EA8 1st Mixer/Crystal Osc, 6EA8 2nd Mixer/Cathod Follow, 12AX7 Q-Mult, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6AT6 AGC Rectifier/AM Detector/AF Amp, 6BF5 AF Output, 6DC6 BFO, 6AU6 VFO plus semiconductors.

Accessories:

312B-3 Speaker 312B-4 Station Console
 X455KQ200 200Hz Filter F455FA-05 500Hz Filter F455FA-08 800Hz Filter
 F455FA-15 1500Hz Filter F455FA-40 4000Hz Filter F455FA-31 3100Hz Filter

Comments: Ranges: 3.4-3.6, 3.6-3.8, 3.8-4, 7-7.2, 7.2-7.4, 14-14.2, 14.2-14.4, 14.8-15, 21-21.2, 21.2-21.4, 21.4-21.6 and 28.5-28.7 MHz. Matches the 32S-3 transmitter. Requires a speaker. [¥100,000-140,000].



Mfg. In: United States 1963-1975

Voltages: 115/230 VAC 50-400 Hz
85W

Readout: Analog Lin.

Physical: 14.75x7.75x12.5" 20 Lbs.
375x197x317mm 9.1 kg

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$620-795	\$450-750
Rating:	★★★★★	★★★★★



**Rockwell
International**

75S-3C

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 11 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S-Meter
- Preselector
- Calibrator 100 kHz
- RF Gain
- Rejection Tuning
- Mute
- AGC OFF/SLO/FST
- Standby
- BFO
- Anti-Vox Jack
- CW Sidetone Jack

Specifications:

CoverageHam. See Comments. Modes AM/LSB/USB/CW
 Selectivity2.1/ / / kHz -6dB. Stability 100 Hz (After warm-up)
 Sensitivity<.5µV 10 dB S+S/N SSB IF Rejection >50 dB
 Image Rej.....>50 dB Antenna Input . RCA 50 ohms
 Audio Out3 W 4 ohms Environment ... 0° to 50° C. 0-90% Hum.

Circuit Complement:

6DC6 Crystal Cal., 6DC6 RF Amp, 6EA8 1st Mixer/Crystal Osc, 6EA8 2nd Mixer/Cathod Follow, 12AX7 Q-Mult, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6AT6 AGC Rectifier/AM Detector/AF Amp, 6BF5 AF Output, 6DC6 BFO, 6AU6 VFO plus semiconductors.

Accessories:

312B-3 Speaker 312B-4 Station Console
 X455KQ200 200Hz Filter F455FA-05 500Hz Filter F455FA-08 800Hz Filter
 F455FA-15 1500Hz Filter F455FA-40 4000Hz Filter F455FA-31 3100Hz Filter

Comments: Ranges: 3.4-3.6, 3.6-3.8, 3.8-4, 7-7.2, 7.2-7.4, 14-14.2, 14.2-14.4, 14.8-15, 21-21.2, 21.2-21.4, 21.4-21.6 and 28.5-28.7 MHz. Matches 32S-3A transmitter. Same as the 75S-3B but with an additional HF crystal board (14 sockets) and front panel selector switch. Requires a speaker. [¥200,000].



Mfg. In: United States 1964-1975

Voltages: 115/230 VAC 50-400 Hz
85W

Readout: Analog Lin.

Physical: 14.75x7.75x12.5" 20 Lbs.
375x197x317mm 9.1 kg

Status: Active Manufacturer
Inactive Model

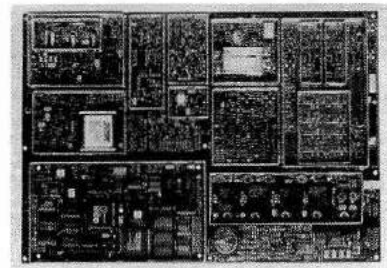
Rarity: Common

	New	Used
Price:	\$690-1200	\$600-850
Rating:	★★★★★	★★★★★

95S

Wideband Communications Computer Receiver

Rockwell Direct Conversion. Solid State.



Features:

- Headphone Out
- RS-232C Control
- BFO ± 6.4 kHz
- S-Level Reporting
- RF Gain
- Speaker Jack
- Line Out Jack
- Preselector >20 MHz
- Ext. Freq. Stand
- Two Ant. Inputs
- BITE
- AGC Programmable
- DSP

Specifications:

Coverage 5 kHz - 2000 MHz Modes AM/FM/LSB/USB/CW/ISB
 Selectivity See Comments. Stability ± 1 PPM 0° to 50° C
 Sensitivity <.4 μ V 10 dB S/N IF Rejection >80 dB <30 MHz
 Image Rej >100 dB <30 MHz Antenna Input . 50 ohms
 Audio Out 1 W 8 ohms 10% Dist. Environment ... 0° to 50° C. 0-95% Hum.

Circuit Complement:

Per Rockwell literature: The 95S utilizes homodyne receiver architecture ... there is only one mix in the receiver: a single synthesizer local oscillator is tuned to the signal frequency, and directly converts the signal to baseband, or a zero-frequency "IF signal". The 16-bit DSP section utilizes twin microprocessors to perform all FIR filtering, demodulation, AGC and ancillary functions.

Comments:

Bandwidths: .2, .4, .8, 1.6, 3.2, 6.4, 12.8, 25.6, 51.2, 91, 102.4 and 150 kHz -3dB. The built-in tracking preselector operates from 20 to 2000 MHz. The receiver may be purchased in a case or unpackaged (as shown).

Mfg. In: United States 1995-1997

Voltages: 9-16 VDC

Readout:



Digital PC

Physical: 13.4"x9.21"x.9"
340x234x229mm

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

Reviews: Mon. Times November 1995

	New	Used
Price:	\$5000A	④
Rating:	⑥	⑥



Rockwell
International

451S-1

General Communications Receiver

Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF-Meter
- PBT
- Modular Construction
- RF Gain
- Speaker
- Mute Line
- AGC SLO/FST
- IF Out 455 kHz
- Dial Lock
- Atten. -20 dB
- Speaker Jack
- Line Out Jack
- Keypad Input Jack (later production)

Specifications:

Coverage 200 - 30000 kHz Modes AM/SSB/CW
 Selectivity 6/2.1/36/_/_ kHz -3dB. Stability ± 20 Hz
 Sensitivity <.5 μ V 10 dB S/N SSB IF Rejection >60 dB
 Image Rej >60 dB Antenna Input . BNC 50 ohms
 Audio Out 3 W 4 ohms Environment ... 0° to +50° C. 95% Humid

Accessories:

AC-3801 NB AC-3811 140 Hz Filter AC-3812 1700 Hz Filter
 AC-3814 3.2 kHz Filter AC-3807 Hi-Stability Oven AC-3805 Wired Keypad
 Rack Mount Kit

Comments:

Tuning steps: 10 Hz, 100 Hz, 1 kHz or 1 MHz. Filters are switchable independent of mode. This model was designed as the successor to the famous 51S-1. The Keypad Input Jack for the optional AC-3805 Wired Keypad was not introduced until 1982. The 451S-1 has a very similar appearance to the KWM-380 transceiver. Reportedly only ten 451S-1 radios were produced.

Mfg. In: United States 1980-1983

Voltages: 105/115/125/210/220/230
240/250 VAC 47-63 Hz
or 12-15 VDC

Readout:

00000.01

Digital LED

Physical: 15.5x6.5x18" 28 Lbs.
394x165x457mm 12.7 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

Reviews: WRTH 1982

	New	Used
Price:	\$4800	\$5000+
Rating:	★★★★★	★★★★



Rockwell
International

651S-1

General Communications Receiver

Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- IF Out Jack
- Line Out Jack
- S/AF-Meter
- Speaker
- Dial Lock
- Cooling Fan
- BFO & VBFO
- Mute Line
- Ext. Standard
- Spinner Knob
- Modular Construction
- AGC SLO/FST
- Speaker Jack
- Local/Remote

Specifications:

Coverage 250 - 30000 kHz
 Selectivity 16/6/2.7/_ kHz -3dB.
 Sensitivity <.7μV 2-30 MHz SSB
 Image Rej >80 dB
 Audio Out 2 W 8 ohms

Modes AM/SSB/CW
 Stability 5 x 10⁻⁷/30 days
 IF Rejection >80 dB
 Antenna Input . BNC 50 ohms
 Environment ... 0° to +55° C. 95% Humid.

Accessories:

ISB Option
 635U-2 HF Preselector
 200 Hz Filter
 1.1 kHz Filter

Sweep Feature
 514S-1 ASCII Remote
 370 Hz Filter
 3 kHz Filter

NBFM
 RS-232 Interface
 1 kHz Filter
 VLF Converter (12-250 kHz)

Comments: Two rotary switches provide coarse frequency adjustment in 1 and .1 MHz steps while the main tuning knob tunes in 100 Hz increments (10 kHz/rev.). Early production had Nixie tubes, middle production had LED assemblies in the Nixie sockets. Final production had LEDs conventionally mounted. LED units more valuable. Has a "chuffy" VFO. Most units sold to gov't. agencies. [¥200,000].

Variants: Model **651S-1B** has the BFO tied to an internal synthesizer standard and is tunable ±9990 Hz. Model **651S-1A** exclusively uses an LED frequency display.

Mfg. In: United States 1971-1973

Voltages: 115/230 VAC 47-63 Hz
 70W

Readout: **00000.1** Digital Nixie
 or later LED

Physical: 13.2x6.25x15.8" 28 Lbs.
 335x159x401mm 13.7 kg

Status: Active Manufacturer
 Inactive Model

Rarity: Very Scarce

Reviews: *Ham Radio* January 1971
WRTH 1976

	New	Used
Price:	\$9000-40000	\$1050-1800
Rating:	★★★★★	★★★★



Rockwell
International

851S-1A

General Communications Receiver

Double? Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- IF Out Jack
- BFO ±9.9 kHz
- AFC
- S-Indicator
- Speaker
- Keypad
- Local/Remote
- Rack Handles
- Squelch
- Speaker Jack
- B.I.T.E.
- Dial Lock
- 99 Memories
- Modular Construction
- AGC SLO/MED/FST/OFF
- Line Out 600 ohm
- Two Tuning Speeds
- Speaker Switch

Specifications:

Coverage 250 - 30000 kHz
 Selectivity 16/6/2.7/1/1.5 kHz
 Sensitivity <.7μV 10 dB (1.6-29.9)
 3IP +25 dBm
 Audio Out 2 W 8 / 600 ohms

Modes AM/LSB/USB/CW
 Stability 5x10⁻⁷
 Environment ... 0° to 50°C. 95% Humid.
 Antenna Input 50 ohms

Accessories:

FM Mode Option
 Filters
 Table Top Case

ISB Option
 AFC Option
 +35 dBm 3IP

Oven Standard
 VLF (12-249 kHz)

Comments:

Designed for rack mounting. Shown with optional cabinet. There is a switch for the speaker and a switch for the headphone to select ISB channel A or ISB channel B if optional ISB board is installed.

Variants:

Model **851S-1** earlier production, fewer features.

Mfg. In: United States 1982-1990

Voltages: 100/115/215/230 VAC
 47-63 Hz 100W

Readout: **00000.001** Digital LCD

Physical: 19x7x19" 38 Lbs.
 483x178x483mm 17.2 kg

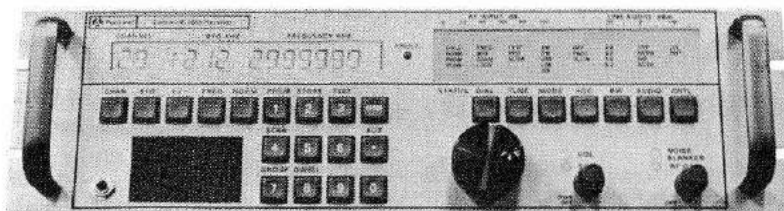
Status: Active Manufacturer
 Active Model

Rarity: Extremely Scarce

	New	Used
Price:	\$6000	⑤
Rating:	⑥	⑥

HF-2050

General Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- IF Out Jack
- Line Out Jack
- BFO ± 4 kHz
- S & AF Indicator
- Speaker
- Dial Lock
- Keypad
- Scan
- PBT
- Speaker Jack
- Atten. -20 dB
- B.I.T.E.
- RS232C
- Modular Construction
- AGC SLO/FST
- 30 Memories
- Rate Sensitive Tuning
- Rack Handles

Specifications:

Coverage 14 - 30000 kHz
Selectivity 6/3.2/2.8/1.3 kHz -3dB.
Sensitivity $< .42\mu\text{V}$ 10 dB S/N
Image Rej > 100 dB
Audio Out 2.5 W 4 ohms
Modes AM/LSB/USB/CW
Stability 5×10^{-7} per day
IF Rejection > 100 dB
Antenna Input . BNC 50 ohms
Environment ... 0° to $+50^\circ$ C. 95% Hum.

Circuit Complement: DSP

Accessories:

Filters
Variable NB
Table Top Case
1 Hz Readout
100 Memories
Squelch
Display Light
NBFM Option
ISB Option
RS232/RS422 Interface
Scan/Sweep Option

Comments:

Designed for rack mounting. Memories store: frequency, mode, bandwidth and AGC settings. Later production featured 100 memories. The first production receiver with DSP. Very scarce and very desirable.

Mfg. In: United States 1984-1991

Voltages: 100/115/215/230 VAC
47-63 Hz 100W

Readout: **00000.01** Digital LCD

Physical: 19x5.25x18" 38 Lbs.
483x133x458mm 17.2 kg

Status: Active Manufacturer
Active Model (?)

Rarity: Extremely Scarce

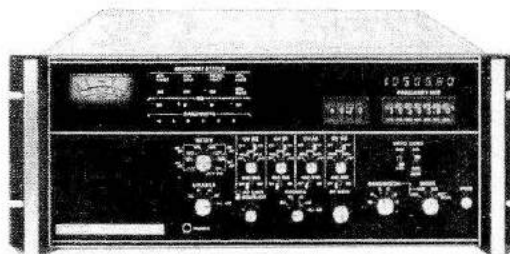
	New	Used
Price:	①	\$4000A
Rating:	⑥	⑥



**Rockwell
International**

HF-8050

General Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- BFO
- S/AF-Meter
- Speaker
- Squelch
- Rack Handles
- IF Out Jack
- Modular Construction
- Dial Lock

Specifications:

Coverage25 - 30 MHz
Selectivity 19/2.7/1.1/1.1 kHz -3dB.
Sensitivity $< .7\mu\text{V}$ 10 dB S+S/N
Image Rej > 100 dB
Modes AM/LSB/USB/CW
Stability 5×10^{-7} /day
IF Rejection > 100 dB
Environment ... 0° to 50° C. 0-95% Hum.

Comments:

Designed for rack mounting. Uses decadic thumb wheel switches for frequency selection. Tunes to 10 Hz. [¥500,000].

Variants:

The models **HF-8054 (shown)** and **HF-8054A** are a four channel ISB versions. [¥800,000].

Mfg. In: United States 1982-1997

Voltages: 100-127/207-253 VAC
47-63 Hz 80W

Readout: **00000.01** Digital Switch

Physical: 19x7x20.9" 42 Lbs.
483x133x458mm 17.2 kg

Status: Active Manufacturer
Active Model

Rarity: Extremely Scarce

Reviews: *RadCom* May 1985

	New	Used
Price:	①	\$2400-3600
Rating:	⑥	⑥



R-388/URR

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 18 Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- Dial Set Adjust
- ANL
- S/AF Meter
- AVC ON/OFF
- IF Out Jack
- Mute
- Antenna Trimmer
- Dial Lamp
- Rack Handles
- Fiduciary Adj.
- Dial Lamp
- BFO
- Crystal Cal. 100 kHz.
- 600 Ohm Line Out

Specifications:

Coverage 540 - 30500 kHz
Selectivity 6/2-.2 kHz 5 steps
Sensitivity <5µV 10 dB S/N CW
IF Rejection ... >50 dB
Audio Out 1.5 W 4/600 ohms
Modes AM/CW/MCW
Stability 1 kHz (After warm-up)
Image Rej >40 dB
Antenna Input . SO239 50 ohms

Circuit Complement: 6AK5 RF Amp, 6BE6 1st Mixer, 6BE6 Band 1 Mix, 6BA6 Calibrator Osc, 6AK5 Crystal HF Osc, 6BE6 2nd Mixer, 6BA6 1st 500 kHz IF Amp, 6BA6 2nd 500 kHz IF Amp, 6BA6 3rd 500 kHz IF Amp, 12AX7 Detector/AVC Rect., 12AU7 AVC Amp/IF Out Cath Follow, 12AX7 NL/1st Audio Amp, 6AQ5 Audio Power Amp, 6BA6 BFO, 5V4 Power Rect., 0A2 Volt.Reg., 6BA6 VFO Osc and 6BA6 Osc Isolation Amp. Double conversion from 3.5-30.5 MHz. Uses 70E-15 VFO.

Accessories: CV-591 SSB Adapter

Comments: Designed for 19" rack mount. Ranges: thirty 1 MHz bands starting at .5 MHz. The military version of the Collins 51-J3.

Variants: An R-388A with mechanical filters, was built for the U.S. Navy. This would be the military equivalent of the 51-J4.

Mfg. In: United States 1951-1962

Voltages: 115/230 VAC 45-70 Hz
120 W

Readout: Analog Lin.

Physical: 19x10.5x13" 35 Lbs
483x267x330mm 15.8 kg

Status: Active Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	①	\$210-340
Rating:	⑦	⑦



R-389/URR

LF/MF Communications Receiver
Double Conversion Superheterodyne. 36 Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- Dial Lock
- Squelch
- S-Meter
- BFO
- Rack Handles
- Tone 3 Pos.
- AF Meter
- Limiter
- Line Out
- Mute Line
- Antenna Trimmer
- AGC SLO/MED/FST
- IF Out Jack
- Break-In Switch

Specifications:

Coverage 15 - 1500 kHz
Selectivity 8/4/2/1/.1 kHz
Audio Out 600 ohms
Modes AM/CW/MCW/FSK
IF 10 MHz, 455 kHz
Environment ... -40° to +65°C. 95% Humid

Circuit Complement:

Same IF strip as the R-390.

Comments:

Ranges: .015-.5 and .5-1.5 kHz. Please note the very limited frequency coverage of this receiver. Please note that the R-389A/URR is not an HF receiver. This receiver will have strong appeal to longwave and medium DX'ers and possibly collectors. Has motor assisted tuning for rapid frequency changes. Excellent dial accuracy is achieved. There are calibration marks every 1 kHz on medium wave and every 100 Hz on longwave. Should be supplied with CX-1358/U AC power cable. To convert a PL-259 to the balanced antenna input jack you need a UG-970/U connector. The meters may be missing. (See R-390A/URR Comments).

Mfg. In: United States 1955

Voltages: 115/230VAC 48-62 Hz
250W

Readout: Digital Mech.

Physical: 19x10.5x17.25" 82 Lbs.
483x267x438mm 37.2 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: ODXA August 1987

	New	Used
Price:	①	\$300-450
Rating:	⑦	★★★★



R-390/URR

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 32 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- AF Meter
- Line Out 600 ohm
- RF Gain
- BFO
- Limiter
- AGC SLO/MED/FST
- Dial Lock
- Rack Handles
- IF Out Jack
- Calibrator 100 kHz
- Squelch
- Antenna Trimmer

Specifications:

Coverage 500 - 32000 kHz Modes AM/CW/MCW
Selectivity 16/8/4/2/1/1 kHz IF 17.5-25, 3-2 MHz, 455 kHz
Audio Out 600 ohm .5 W Environment ... -40° to +65° C.

Accessories:

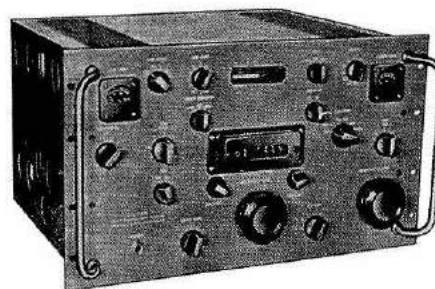
CV-1982/TSC26 SSB Conv. CV-89/URA-8 AFSK Loop Conv.
AM-4823/U HF Preselector

Comments:

The type of frequency readout employed is often termed "odometer". The R-390 was designed and manufactured exclusively by Collins and Motorola. An estimate 16,600 were manufactured. To some collectors they are more desirable than the R-390A. [¥200,000]

Variants:

The model **R-391** supports 7 autotune channels. This a mechanical preset scheme.



Mfg. In: United States 1951-1964

Voltages: 110/220VAC 48-62 Hz
270W

Readout: 00001. Digital Mech.
& Ana. Linear

Physical: 19x10.5x17.25" 65 Lbs.
483x267x438mm 29.5 kg

Status: Active Manufacturer
Inactive Model

Rarity: Common

Reviews: CQ January 1971

	New	Used
Price:	①	\$220-450
Rating:	★★★★★	★★★★★



R-390A/URR

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 24 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- AF Meter
- Antenna Trimmer
- RF Gain
- BFO
- Limiter
- AGC SLO/MED/FST
- Dial Lock
- Rack Handles
- Line Out 600 ohm
- Calibrator 100 kHz
- IF Out Jack

Specifications:

Coverage 500 - 32000 kHz Modes AM/CW/MCW
Selectivity 16/8/4/2/1/1 kHz IF 17.5-25, 3-2 MHz, 455 kHz
Audio Out 600 ohm .5 W Environment ... -40° to +65° C.

Accessories: CV-1982/TSC26 SSB Conv. CV-89/URA-8 AFSK Loop Conv.

Comments: Over 50,000 "A" models were made by Collins and many other manufacturers including: Motorola, Stewart-Warner, Capehart, Amelco, Teledyne, EAC, Fowler Ind., Dittmore-Freimuth and Helena Rubenstein. Most, but not all "A" production has mechanical filters and is therefore more desirable to DXer's. The "A" version has the antenna trimmer knob directly above the frequency display that is not found on the earlier non-A model. This robustly built receiver is still in use worldwide. It has a hearty front-end, is unusually stable and is accurate for a tube receiver. The R-390's and R-390A's are often found missing meters which allegedly gave off excessive radiation if meter case opened. [¥110,000].

Variants: Model **R-391A** supports 7 autotune channels. Model **R-725** is a reworked R-390A with the front-end of a R-390A, but with an IF strip similar to the R-390's. This DF variant was prototyped by Motorola and produced by Servo and Arvin.



Mfg. In: United States 1954-1985

Voltages: 110/220VAC 48-62 Hz
270W

Readout: 00001. Digital Mech.
& Ana. Linear

Physical: 19x10.5x17.25" 65 Lbs.
483x267x438mm 29.5 kg

Status: Active Manufacturer
Inactive Model

Rarity: Common

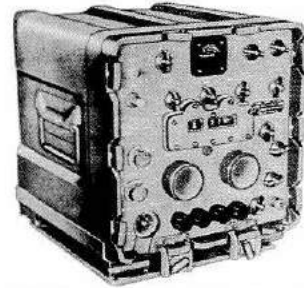
Reviews: CQ January 1971

	New	Used
Price:	\$2500-35500	\$250-570
Rating:	★★★★★	★★★★★



R-392/URR

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 25 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- AF Meter
- Antenna Trimmer
- RF Gain
- BFO ± 3 kHz
- Limiter
- IF Jack 455 kHz
- Dial Lock
- Dial Adjust
- Standby
- Calibrator 100 kHz
- AGC
- Dimmer
- Squelch

Specifications:

Coverage 500 - 32000 kHz
Selectivity 8/4/2 kHz -6 dB
Sensitivity $< 5\mu\text{V}$ 2-32 MHz.
Audio Out 200 mw 600 ohms

Modes AM/CW/MCW
IF 9-18, 3-2 MHz, 455 kHz.
Antenna Input . Military BNC

Circuit Complement:

Two RF and six IF stages.

Accessories:

LS-166/U Speaker

Comments: The R-392 is the smaller, vehicular version of the R-390. Like the full size R-390, it does not have mechanical filters. Frequently mounted in jeeps. Immersion proof. Olive colored. Not a pretty radio. Try to obtain a radio with the power cord and antenna connectors. At least 25,000 were made. [¥90,000-150,000]

Variants:

Designed by Collins. Manufactured by Collins, Western Electric, Stromberg Carlson, Dubrow Electronics, Colonial Mfg. Co., Philco, Stewart Warner and Motorola.

Mfg. In: United States 1950-1959

Voltages: 24-28 VDC 3 Amps

Readout: 00001. Digital Mech.

Physical: 11.5x11.5x14.375" 52 Lbs.
292x365x292mm 23.6 kg

Status: Active Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	①	\$60-210
Rating:	★★★★★	⑦

13 ComFocus

The **ComFocus Corporation** abruptly entered the high end receiver market in 1994 with the very ambitious SoftWave receiver. This was the first fully integrated digital communications receiver for Microsoft Windows. The receiver was shown at the *Dayton Hamvention* in April 1994.

The receiver consists of two components: a plug-in DSP PC-card and external metal chassis. Complete control is exclusively by the windows based graphical interface. Coverage is from .5-30 and 108-174 MHz. The radio has several personalities. As an AM radio, the display emulated a digital car radio. In the communications mode, 1 Hz tuning resolution is featured along with a spectrum display. The VHF radio personality tunes from 108-174 MHz. Various teletype demodulator options were announced, but never introduced.

It is evident that a great deal of research and development went into this product, especially on the digital and graphical user interface (GUI) side. However, the RF performance of the receiver, despite its many features, was rather modest. The graphical interface was interesting, but somewhat tiresome and slow to use. With just a bit more work on the RF side, this interesting receiver could have been a winner, but the company faded from the scene in 1995.

ComFocus Corporation

6160 Lusk Blvd.

San Diego, CA 92121

1994-1995

SoftWave™
By **ComFocus**

SoftWave

General Coverage Communications Computer Receiver

Double Conversion Superheterodyne. Solid State. Computer Based.

Features:

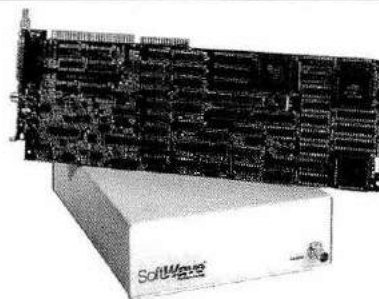
- Speaker Out
- Line Out
- Sync. Detection
- Attenuator
- Scan
- Sweep
- NB
- Notch Filter
- BFO
- Squelch
- AGC
- Spectrum Display
- RF Gain
- Dual VFOs
- VHF Audio Filter
- Database Storage
- Base
- Treble
- WWV Time Sync.

Specifications:

Coverage 500 - 30000 kHz +VHF¹ Modes AM/CW/USB/LSB/FM
Selectivity 48 bandwidths. 3rd Ord Interc. 2.5 dBm 20 kHz.
Sensitivity -130/142 dBm/V IF Rejection >90 dB
Dyn. Range ... 97 dB Image Reject .. >90 dB HF, 50 dB VHF
Audio Out 1 W 8 ohms Notch Filter Variable -60 dB
VFO Resol 18 Hz. Display Res 1 Hz
Noise Fig 9 dB HF, 11 dB VHF Antenna Jack . BNC


Comments:

The Softwave receiver by ComFocus was the first Windows-based receiver. VHF coverage: 108 - 174 MHz. Minimum PC requirement: 286/287 CPU, 1M RAM, DOS 3.2, Windows 3.1, EGA. Suggested PC configuration: 486, 4M RAM, DOS 5.0, Windows 3.1, VGA. This receiver offers many unique capabilities, but has only average shortwave performance.



Made In: United States 1994-1995

Voltages: (derived from the PC).
8 W

Readout:  Digital PC

Physical: 7.3"x2.4"x10.4" 2.5 Lbs.
185x60x264mm 1.1 Lbs

Status: Inactive Manufacturer
Discontinued Model

Rarity: Very Scarce

Reviews: *Passport* 1995

Pop. Comm. June 1964

Mon. Times October 1994

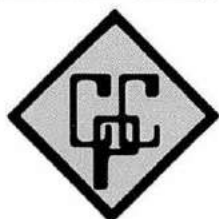
	New	Used
Price:	\$1400-1500	②
Rating:	★★	★★

14 Communications Product

The **Communications Product HF1030** bears a striking resemblance to a Cubic receiver. The author suspects that this receiver was an OEM version or produced for a particular marketing channel.

Further information on the Communications Product HF1030 is solicited by the author.

Communications Product Corp.
Rohde & Schwarz Sales Co.
14 Gloria Lane
Fairfield, NJ 07006



HF 1030

General Coverage Communications Receiver
Double Conversion Superheterodyne, Solid State.



Features:

- NB SSB/CW
- S-Meter
- Squelch
- AGC (2 Pos.)
- RF Gain
- 10 Hz VFO
- 100 Hz display
- 2 Tuning Speeds
- 455 IF Out Jack
- 1 MHz Ref. Osc.
- Speaker Out
- Line Out 600 Ohms

Specifications:

- Coverage 10 - 30000 kHz
- Modes AM/CW/LSB/USB/FSK
- Selectivity 5.8/2.2/1.9/4 kHz -3dB
- Stability 1 PPM/month
- Sensitivity <.5µV SSB/CW
- IF Rejection >80 dB
- I.F.s 40.455 MHz, 455 kHz
- Image Rej. >80 dB
- Audio Out 2 W 4 ohm 10% dist.
- Environment ... -25° to + 50° C 95% Humid
- Antenna Input BNC

Accessories:

- NBFM
- ISB
- FSK to ASCII RS232 port
- Single Rack Mount
- Double Rack Mount
- CW to ASCII RS232 port

Comments:

Three tuning methods: thumbwheel decadic switches, main tuning knob (1.8 or 18 kHz per rev), IEEE BCD bus. Filters are Collins. This product was marketed to the commercial sector by the Rohde & Schwarz Sales Company U.S.A. Inc. It was sold to amateur radio operators by Ehrhorn Technological Operations, Inc.

Made In: United States 1978-1980

Voltages: 110/220 VAC 47-400 Hz
25W or 13-30 VDC 1.2A

Readout: **00000.01** Digital LED

Physical: 8.25x5.25x14.5" 18 Lbs.
13.3x21x36.8 cm 8.2 kg

Status: Inactive Manufacturer (?)
Discontinued Model

Rarity: Typically Unavailable

	New	Used
Price:	\$4500-4600	⑤
Rating:	⑥	⑥

15 Cubic Communications

The **Cubic Corporation** was established in 1951 and is one of the world's leading suppliers of communications equipment and systems. They have expanded into other high technology fields including computer based fare collection, electronic countermeasures, defense and space systems plus electronic positioning devices.

Cubic Communications is a wholly owned subsidiary of Cubic Corporation. The Corporation has over 3,500 employees worldwide including more than 1,200 scientists, engineers and technicians.

Cubic Communications became better known to the hobbyist community when they acquired Swan in the seventies. The Swan Astro-150 is still a respected 80 to 10 meter amateur transceiver.

More recently, Cubic Communications has exclusively focused on the military, government and commercial market offering high quality, leading-edge communications equipment.

Cubic Communications

305 Airport Rd.
Oceanside, CA 92054 1979-1981

Cubic Communications

9535 Waples St.
San Diego, CA 92121 -1996

Cubic Communications

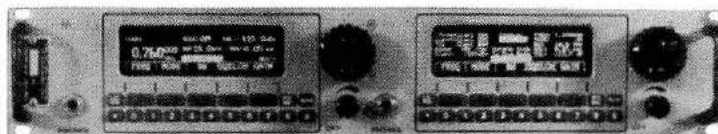
4285 Ponderosa Av.
San Diego, CA 92123 1993-1997



CUBIC

CDR-3130

General Coverage Communications Dual Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- BFO ± 10 kHz
- Local/Remote
- 250 Memories
- DSP
- S/AF-Indicator
- AGC (variable)
- Scan
- Keypad
- Computer Port¹
- BITE
- Rack Handles
- Sweep
- IF Shift
- Line Out 600 ohm
- Modular Construction
- Squelch
- Ext. Ref. 10/5/1 MHz

Specifications:

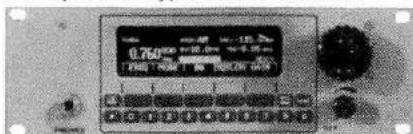
- Coverage 10 - 30000 kHz
- Selectivity 51 Bandwidths
- Sensitivity -124 dBm 10dB SINAD CW
- Image Rej >90 dB
- Third Ord. I. ... +30 dBm
- Audio Out 15 ohms
- Modes AM/LSB/USB/CW/FM/ISB
- Stability ± 1 PPM
- IF 40.455 MHz, 455 kHz
- IF Rejection >100 dB
- Antenna Input . TNC 50 ohm
- Environment ... 0° to +50° C.

Accessories: FSK Demod. RS-232 Bus RS-422 Bus
IEEE-488 Bus RCU-3100 Controller

Comments: This is dual rack version of the CDR-3150 shown on the following page. Please see CDR-3150 Comments. ¹Customer specifies type of bus desired.

Variants:

Model **CDR-3180** is a half-rack receiver. It is shown to the right. Model **CDR-3120** is a remote version of the CDR-3130 and does not have a front panel.



Made In: United States 1992-1997

Voltages: 90-260 VAC
47-400 Hz 60W

Readout: **00000.001** Digital Fluor.

Physical: 19x3.5x21" 25 Lbs.
483x89x538mm 11.4 kg

Status: Active Manufacturer
Active Model

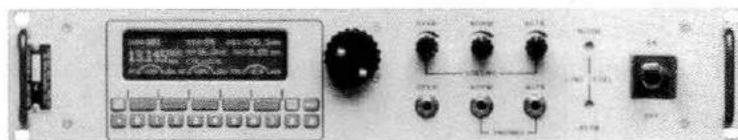
Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



CDR-3150

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack (2)
- S/AF-Indicator
- BITE
- Line Out 600 ohm
- BFO ± 10 kHz
- AGC (variable)
- Rack Handles
- Modular Construction
- Local/Remote
- Scan
- Sweep
- Squelch
- 250 Memories
- Keypad
- IF Shift
- Ext. Ref. 10/5/1 MHz
- DSP
- Computer Port¹

Specifications:

Coverage 10 - 30000 kHz Modes AM/LSB/USB/CW/FM/ISB
Selectivity 51 Bandwidths Stability ± 1 PPM
Sensitivity -124 dBm 10dB SINAD CW IF 40.455 MHz, 455 kHz
Image Rej >90 dB IF Rejection >100 dB
Third Ord. I +30 dBm Antenna Input . TNC 50 ohm
Audio Out 15 ohms Environment ... 0° to +50° C.

Accessories:

FSK Demod. RS-232 Bus RS-422 Bus IEEE-488 Bus
RCU-3100 Controller

Comments: The fully integrated vacuum fluorescent display coupled with menus and soft-keys provides maximum flexibility. The rotary knob, as well as keypad entry can be used for: frequency tuning, bandwidth selection, BFO offset, IF shift, manual gain, squelch level, scan-sweep speed, scan-sweep dwell and scan-sweep level offset. Controlled by an 80C188 Intel microprocessor. Memory is non-volatile. ¹The customer, at time of order, must specify the type of computer bus desired.

Made In: United States 1992-1997

Voltages: 90-260 VAC
47-400 Hz 60W

Readout: **00000.001** Digital Fluor.

Physical: 19x3.5x21" 25 Lbs.
483x89x538mm 11.4 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



HF-1030

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- IF Shift ± 5 kHz
- Line Out 600 ohm
- RF Gain
- AGC
- Squelch
- Modular Construction
- IF Out 455 kHz
- AGC Out Jack
- IEEE488 Port
- BCD Control Port

Specifications:

Coverage 10 - 30000 kHz Modes AM/LSB/USB/CW/FSK
Selectivity 5.8/2.2/1.2/375 kHz -3dB. Stability ± 1 PPM/month
Sensitivity <1.3 μ V 10 dB S/N CW IF Rejection >100 dB
Image Rej >70 dB Antenna Input . BNC 50 ohm
IF 40.455 MHz, 455 kHz Environment ... 0° to +50° C. 95% Humid
Audio Out 2 W 4 ohms & 600 ohm

Accessories:

HF1030R Rack Kit BA1030 Bus Adapter DA1030 Diversity Adapter
HF1030R-2 Dual Rack Kit (shown in use below).

Comments:

Tuning may be accomplished by rotating the main tuning knob, setting the frequency via the BCD decade switches above the LED display or remotely via the BCD parallel port. This receiver is robustly built to meet the most demanding commercial applications.



Made In: United States 1981-1986

Voltages: 115/230 VAC 47-400Hz 25W
or 12-30 VDC 1.2 A

Readout: **00000.01** Digital LED

Physical: 8.75x5.25x14.5" 18 Lbs.
210x133x368mm 8.2 kg

Status: Active Manufacturer
Inactive Model

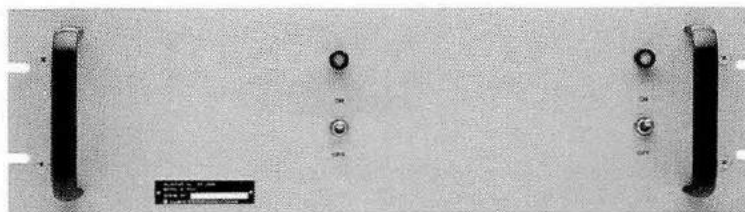
Rarity: Extremely Scarce

	New	Used
Price:	①	\$730-800
Rating:	⑥	⑥



R-3020

General Coverage Communications Receiver [2]
Double Conversion Superheterodyne. Solid State.



Features:

- Computer Port¹
- 100 Memories
- IF Shift ± 10 kHz
- Line Out 600 ohm
- BFO ± 10 kHz
- AGC (5 pos)
- Rack Handles
- Modular Construction
- IF Out 455 kHz
- Scan
- Sweep
- 3 Tuning Steps

Specifications:

Coverage 5 - 30000 kHz
Selectivity 8/4/2/1.5/ / _ kHz -3dB.
Sensitivity -124 dBm 10dB SINAD CW
Image Rej >90 dB
AGC 15, 50, 250 ms, 3 sec.
Audio Out 15 ohms

Modes AM/LSB/USB/CW/FM
Stability ± 1 PPM
IF 40.455 MHz, 455 kHz
IF Rejection >100 dB
Antenna Input . BNC 50 ohm
Environment ... -20° to +60° C.

Accessories:

1 MHz Ref. Module Filters

Comments:

This model has only a sheet of solid metal for the front panel. The panel has one power switch and one pilot lamp for each of the two receivers. All functions must be controlled exclusively through the computer bus.

¹The customer, at time of order, must specify the type of computer bus desired: RS-232, RS-422, RS-485, MIL-STD-188-114 or special parallel bus.

Made In: United States 1981-1997

Voltages: 95-135 or 190-270 VAC
47-420Hz 35W

Readout:  Digital on PC

Physical: 19x5.22x19.16" 40 Lbs.
483x132x486mm 18.1 kg

Status: Active Manufacturer
Active Model

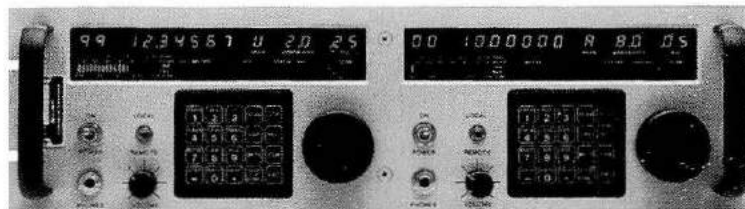
Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



R-3030

General Coverage Communications Dual Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Indicator
- IF Shift ± 10 kHz
- Line Out 600 ohm
- BFO ± 10 kHz
- AGC (5 Pos)
- Rack Handles
- Modular Construction
- IF Out 455 kHz
- Scan
- Sweep
- 3 Tuning Steps
- 100 Memories
- Keypad
- 10 MHz Ref.
- Computer Port¹

Specifications:

Coverage 5 - 30000 kHz
Selectivity 8/4/2/1.5/ / _ kHz -3dB.
Sensitivity -124 dBm 10dB SINAD CW
Image Rej >90 dB
AGC 15, 50, 250 ms, 3 sec.
Audio Out 15 ohms

Modes AM/LSB/USB/CW/FM
Stability ± 1 PPM
IF 40.455 MHz, 455 kHz
IF Rejection >100 dB
Antenna Input . (2) TNC 50 ohm
Environment ... -20° to +60° C.

Accessories:

Other IF Out Jack 1 MHz Ref. Module

Filters

Comments:

All receivers in the R-3000 series have 3 tuning step rates: 10, 100 and 1000 Hz.

¹The customer, at time of order, must specify the type of computer bus desired: RS-232, RS-422, RS-485, MIL-STD-188-114 or special parallel bus. [¥440000].

Variants:

The R-2307/U model is the military version and is available in one configuration.

Made In: United States 1981-1997

Voltages: 95-135 or 190-270 VAC
47-420Hz 35W

Readout: **00000.01** Digital LED

Physical: 19x5.22x19.16" 47 Lbs.
483x132x486mm 21.3 kg

Status: Active Manufacturer
Active Model

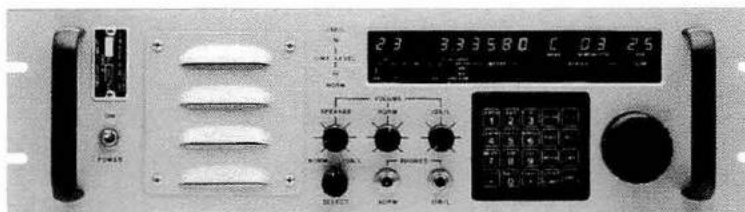
Rarity: Very Scarce

	New	Used
Price:	①	\$1875-2700
Rating:	⑥	⑥



R-3050

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack (2)
- S-Indicator
- BFO ± 10 kHz
- AGC (5 Pos)
- IF Out 455 kHz
- Scan
- 100 Memories
- Keypad
- Computer Port¹
- IF Shift ± 10 kHz
- Rack Handles
- Sweep
- Speaker
- Line Out 600 ohm
- Modular Construction
- 3 Tuning Steps
- 1 MHz Ref. Module

Specifications:

Coverage 5 - 30000 kHz
Selectivity 16/8/3/5/ / / kHz -3dB.
Sensitivity -124 dBm 10dB SINAD CW
Image Rej >90 dB
AGC 15, 50, 250 ms, 3 sec.
Audio Out 15 ohms
Modes AM/LSB/USB/CW/FM/ISB
Stability ± 1 PPM
IF 40.455 MHz, 455 kHz
IF Rejection >100 dB
Antenna Input . N 50 ohm
Environment ... -20° to +60° C.

Accessories:

10 MHz Ref. Module Filters

Comments: Unlike the other models in the 3000 series, the R-3050 includes ISB and 1 MHz Reference Module as standard plus has different bandwidths and antenna input jack. In the ISB position, the R-3050 will receive both the upper and lower sidebands using two separate detectors and sideband filters. AGC may be set for Zero, Short, Medium, Long or Off. ¹The customer, at time of order, must specify the type of computer bus desired: RS-232, RS-422, RS-485, MIL-STD-188-114 or special parallel bus.

Made In: United States 1981-1997

Voltages: 95-135 or 190-270 VAC
47-420Hz 40W

Readout: **00000.01** Digital LED

Physical: 19x5.22x19.16" 35 Lbs.
483x132x486mm 15.8 kg

Status: Active Manufacturer
Active Model

Rarity: Extremely Scarce

	New	Used
Price:	①	\$1500
Rating:	⑥	⑥



R-3080

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Indicator
- BFO ± 10 kHz
- AGC (5 Pos)
- IF Out 455 kHz
- Scan
- 100 Memories
- Computer Port¹
- IF Shift ± 10 kHz
- Keypad
- Sweep
- Spinner Knob
- Line Out 600 ohm
- Modular Construction
- 3 Tuning Steps

Specifications:

Coverage 5 - 30000 kHz
Selectivity 8/4/2/1/5/ / / kHz -3dB.
Sensitivity -124 dBm 10dB SINAD CW
Image Rej >90 dB
AGC 15, 50, 250 ms, 3 sec.
Audio Out 15 ohms
Modes AM/LSB/USB/CW/FM
Stability ± 1 PPM
IF 40.455 MHz, 455 kHz
IF Rejection >100 dB
Antenna Input . BNC 50 ohm
Environment ... -20° to +60° C.

Accessories:

1 MHz Ref. Module Filters

Comments:

The R-3080 is the half rack, single receiver, version of the R-3030. ¹The customer, at time of order, must specify the type of computer bus desired: RS-232, RS-422, RS-485, MIL-STD-188-114 or special parallel bus.

Made In: United States 1981-1997

Voltages: 95-135 or 190-270 VAC
47-420Hz 35W

Readout: **00000.01** Digital LED

Physical: 25 Lbs.

Status: Active Manufacturer
Active Model

Rarity: Extremely Scarce

	New	Used
Price:	①	\$1000-1500
Rating:	⑥	⑥

16 Dansk Radio

The **Dansk Radio Company** produced a complete line of communications equipment including H.F. and VHF receivers. They also produce H.F. SSB/ISB transmitters.

Dansk Radio AS was acquired by TERMA Elektronik AS. In 1994 the Company ceased the production of H.F. communications equipment. TERMA is still producing military communications equipment.

Dansk Radio AS
Mårkærvej 2
DK-26320 Tåstrup,
Denmark

-1992

TERMA Elektronik AS
Hovmarken 4
DK-8520 Lystrup
Denmark

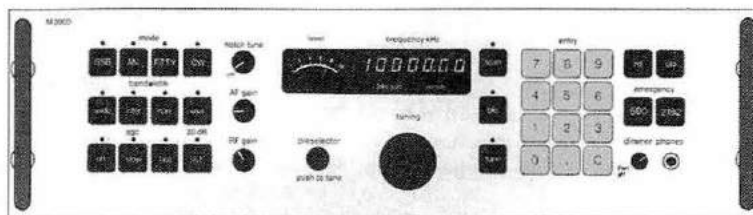
1994-1997

Dansk Radio AS



M3000

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- Line Out 600 ohm
- Scan & Sweep
- S-Meter
- IF Out Jack
- 75 Memories
- Ext. Spkr Out
- Rack Handles
- Keypad
- Notch
- BFO ± 7 kHz
- BITE
- Dimmer
- AGC FST/SLO/OFF
- Preselector
- Presets 500/2182 kHz
- Attenuator -20 dB
- IF Out Jack

Specifications:

- Coverage 100 - 30000 kHz
- Selectivity 5.4/2.4/1/1.2 kHz -6dB.
- Sensitivity <2 μ V 4-30 MHz 20 dB
- Image Rej >90 dB
- Audio Out 4 W 4 ohms
- Modes AM/SSB/CW/RTTY
- Stability ± 1 PPM 0° to 40° C.
- IF Rejection >90 dB
- Antenna Input . BNC 50 ohm (>4 MHz)
- Environment ... 0° to +50° C.

Accessories:

- 001 Suboctave Filters
- 003 Duplex Filters
- 004 RTTY Demodulator
- 005 Oven TCXO
- 006 IEEE-488 Remote
- 007 RS-232 Remote
- Cabinet
- Spare Parts Kit

Comments:

The memories store: frequency, mode, bandwidth, AGC setting, RF attenuation and BFO frequency and have battery backup. During scanning or sweeping, the dwell time can be set from .1 to 9 seconds. This high quality receiver was designed for the maritime user.

Made In: Denmark

Voltages: 110/220 VAC 50/60Hz 60W
or 24VDC 85W

Readout: **00000.01** Digital

Physical: 20x6.25x18.25" 33 Lbs.
509x159x463mm 15 kg

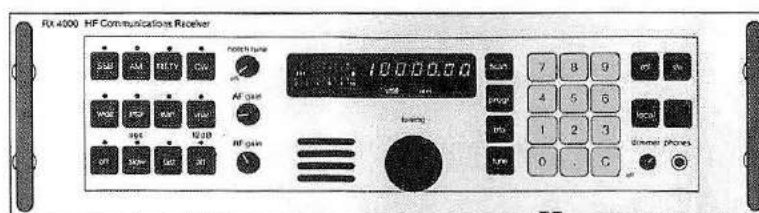
Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑥

RX4000

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- Line Out 600 ohm
- Squelch
- Dial Lock
- S-Indicator
- IF Out Jack
- 75 Memories
- Ext. Spkr Out
- Clock
- Speaker
- Keypad
- Notch
- BFO ± 7 kHz
- Atten. -10 dB
- Dimmer
- Speaker Switch
- AGC
- Scan & Sweep
- 1.4 MHz IF Out Jack
- Rack Handles
- Sidetone Input
- 3 Tuning Rates

Specifications:

Coverage 15 - 30000 kHz
Selectivity 5.4/2.4/1/1.2 kHz -6 dB
Sensitivity <2 μ V 20 dB SINAD SSB
Image Rej >90 dB
Audio Out 4 W 4 ohms
Modes AM/SSB/CW/RTTY
Stability ± 1 PPM -15° to 45° C.
IF Rejection >90 dB
Antenna Input . BNC 50 ohm
Environment ... 0° to +50° C.

Accessories:

471666 RS232 600/1200 bps
471577 RTTY Demod.
463302 RS232 9600 bps
475246 Cabinet

Comments:

Operation from 15 to 100 kHz with reduced performance. The RX4000 has 175 pre-programmed CCIR SSB channels and 257 pre-programmed CCIR-RTTY channels. The memories store frequency, mode, bandwidth, AGC setting, RF attenuation and BFO frequency and have battery backup. During scanning or sweeping, the dwell time can be set from .1 to 9 seconds. The clock can set for up to 24 alarms per day.

Made In: Denmark 1985-1991

Voltages: 110-125, 220-250 VAC
50/60Hz 70W

Readout: **00000.01** Digital

Physical: 19x5.25x18.25" 33 Lbs.
483x132x463mm 15 kg

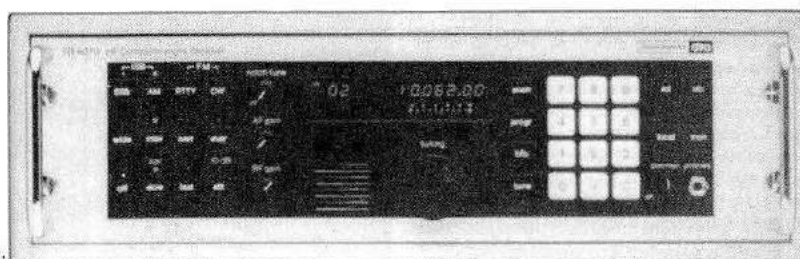
Status: Active Manufacturer
Inactive Model (?)

Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑥

RX4010

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- Line Out 600 ohm
- Squelch
- S-Indicator
- IF Out Jack
- Memories
- Ext. Spkr Out
- Clock
- Keypad
- Notch
- BFO
- Atten 10dB
- Dimmer
- AGC
- Scan & Sweep
- Speaker
- Rack Handles
- Dial Lock

Specifications:

Coverage 10 - 30000 kHz
Environment .. 0° to +50° C.
Modes AM/SSB/ISB/CW/RTTY
Antenna Input . BNC 50 ohm

Accessories:

RC4010 Controller Cabinet

Comments:

The author is seeking further information on this receiver.

Made In: Denmark 1988-1997

Voltages: 110-125, 220-250 VAC
50/60Hz

Readout: **00000.01** Digital

Physical: 19x5.25x18.25" .
483x132x463mm

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑥

17 Davco Electronics, Inc.

Davco Electronics offered a most interesting amateur receiver in the mid-1960's called the DR-30, along with the less heavily advertised DT-20 matching transmitter. The DR-30 was heavily advertised with full page ads in the major American amateur radio magazines. Despite this promotion, the author does not think a great number were manufactured as this model rarely appears on the used market.

The author would like to hear from a DR-30 owner to learn more about this elusive model.

Davco Electronics, Inc.

2024 South Monroe St.

Tallahassee, FL 32304

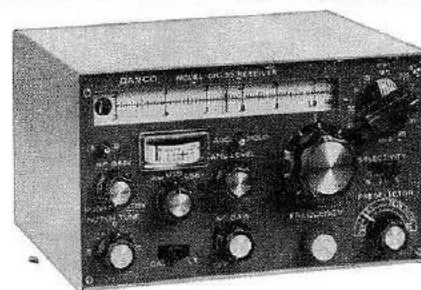
1964-1968

DAVCO

DR-30

Amateur Band Communications Receiver

Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Preselector
- AGC (2 Pos.)
- RF Gain
- ANL
- Dial Light
- Calibrator 100 kHz
- Mute
- Notch Filter

Specifications:

Coverage Ham. See Comments. Modes AM/LSB/USB
 Selectivity 5/2.1/.5 kHz -6dB. Antenna Input. RCA (?)
 Sensitivity <.6µV

Circuit Complement:

23 Transistors, 2 FET's, 15 diodes and 14 crystals. Separate AM and product detectors.

Accessories:

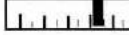
DR-30-S Power Supply & Speaker

Comments:

Supplied coverage: 80-10 meters plus part of 6 meters. Also 9.5-10 MHz and two empty ranges. The supplied 2.1 kHz bandwidth is a Collins mechanical filter. Companion to the DT-20 200 watt transmitter. Two tone gray metal cabinet. This receiver is highly coveted by collectors. In pristine condition, this model has sold used for well over \$1000.

Made In: United States 1965-1966

Voltages: 11.5-16 VDC 300 ma

Readout:  Analog Lin.

Physical: 7x4x6" 7 Lbs.
177x101x152mm 3.2 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Very Scarce

Reviews: CQ December 1964
CQ December 1966
QST January 1967
73 May 1965

	New	Used
Price:	\$338-390	\$400-900+
Rating:	★★★★	⑦

18 Debeg

The **Debeg Company** of Germany manufactures commercial and marine grade communications equipment.

Debeg, from time to time, has also utilized other manufacturers to supplement its line of receivers. The Debeg MSR-2 was really a Drake MSR-2. The Debeg E755 was a modified Eddystone EC-958.

Debeg GMBH
Behringstraße 120
D-2000 Hamburg 50
Germany



DEBEG

2000

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- Line Out 600 ohm
- Scan
- S-Meter
- Rack Handles
- 29 Memories
- Ext. Spkr Out
- IF Out
- Keypad
- Dimmer
- BFO ± 1.5 kHz
- Speaker
- Preselector
- AGC ON/OFF
- Presets 500/2182 kHz
- Modular Construction
- Speaker Switch

Specifications:

Coverage 10 - 30000 kHz
Sensitivity 13 μ V CW 4-30 MHz
Selectivity 5.4/2.4/1/3 kHz -6dB.
Spur. Rej.>60 dB
Image Rej>50 dB
Audio Out3 W 4 ohms

Modes AM/SSB/CW/RTTY
IF 38, 1.4 MHz
Accuracy ± 50 Hz
IF Rejection ... >60 dB
Antenna Input. BNC 50 ohm
Environment ... 0° to +50° C.

Accessories:

FSK Demodulator

Comments:

The memories store frequency, mode and bandwidth. There is a provision for automatic switch-over to 24 VDC in the event of a mains failure.

Made In: Germany 1979-1982

Voltages: 110/220 VAC 47-63Hz 50W
or 24VDC 50W

Readout: **00000.1** Digital LED

Physical: Cabinet
19.8x6.8x16.5" 30 Lbs.
502x172x420mm 13.6 kg

Status: Active Manufacturer
Inactive Model

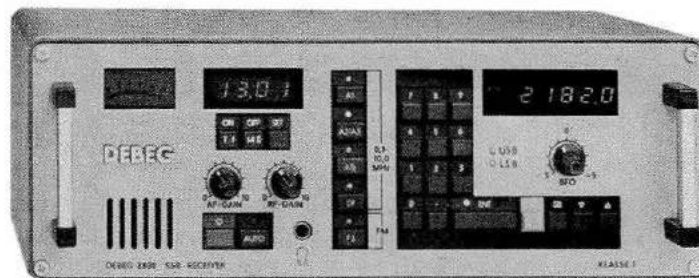
Rarity: Typically Unavailable

	New	Used
Price:	\$5000A	\$1500
Rating:	⑤	⑥



DEBEG

2800



General Coverage Communications Receiver¹
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Meter
- Keypad
- AGC ON/OFF
- RF Gain
- Rack Handles
- BFO ± 15 kHz
- Clock-Timer
- Mute Line
- Ext. Spkr Out
- Speaker

Specifications:

Coverage 100 - 10000 kHz +FM	Modes AM/SSB/CW
Selectivity 7.5/2.4 kHz -6dB. ^	Accuracy ± 50 Hz
Sensitivity5 μ V S/N 10 dB CW	Image Rej >65 dB
Spur. Rej.>60 dB	IF Rejection>65 dB
Audio Out 2 W 4 ohms	Antenna Input . 50 ohm

Accessories:

7480 DF Unit

Comments:

¹ Please note that this receiver only covers H.F. up to only 10 MHz. The WBFM bandwidth for the FM broadcast band (87.5-107.9 MHz) is 230 kHz. The Debeg 2800 is designed for operation on ocean-going yachts.

Made In: Germany 1980-1982

Voltages: 10-32 VDC 21W

Readout: **00000.1** Digital LED

Physical: 13.6x4.73x7" 14.3 Lbs
345x120x180mm 6.5 kg.

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑥

19 R.L. Drake

The **R.L. Drake Company**, established in 1943, has been an innovative leader in the engineering and design of amateur and shortwave radio products. The 1-A receiver was the first commercially built single sideband receiver for the radio amateur. The somewhat radical 1-A represented a classic paradigm shift in amateur communications receivers focusing on performance, economy and functionality rather than size!

The company was headquartered in Miamisburg, Ohio until November on 1996. The Corporate headquarters is now part of the 90,000 square foot production plant in Franklin, Ohio. The office in Peterborough, Canada offers both sales and service. The office in Barcelona, Spain serves as the sales headquarters for Europe.

The company discontinued production of amateur and short-wave equipment in the early 1980's to concentrate all efforts on the home satellite television market. The Service Department was maintained for those in need of parts or service. The introduction of the R-8 in April of 1991 announced their return to the shortwave market. The success of the R-8 was followed by the SW-8, the R-8A and the most recent model, the SW-1. Drake has once again has positioned itself as one of the strongest shortwave receiver manufacturers in the world.

R.L. Drake Co.
P.O. Box 3006
Miamisburg, OH 45342 1943-1996

R.L. Drake Co.
230 Industrial Dr.
Franklin, OH 45005-4496 1978-1997

Drake Canada Sales & Service
Ctr. 655 The Queensway, Unit 16
Peterborough, Ontario
Canada 1985-1997

R.L. Drake Co.
Sucuesal Espana
C/Doctor Trueta, 1Y3
8860 Casteldefels, Spain 1990-1997

R.L. DRAKE COMPANY

1-A

Amateur Band Communications Receiver
Triple Conversion Superheterodyne. 12 or 13 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- RF Gain
- AVC SLOW/FAST
- Mute Jack
- Atten. 30dB
- Speaker Jack
- Antenna Trimmer
- Standby
- Speaker (late)
- Calibrator 100 kHz. (late)

Specifications:

Coverage Ham. See Comments. Modes (AM)/LSB/USB(CW)
Selectivity 2.5 kHz -6dB. Stability <300 Hz After warm-up
Sensitivity <1µV 20 dB S/N IF 2900-3500, 1100, 50 kHz
Image Reject >60 dB Antenna Input . SO-239 50-75 ohms
Audio Out 4 ohms

Circuit Complement:

6BZ6 RF Amp, 6BE6 1st Mixer, 6BE6 2nd Mixer, 6BY6 3rd Converter, 6BZ6 IF, 12AU7 Product Detector, 6BF6 Amp/Rectifier, 6AB4 Crystal Osc, 6BQ7A VF Osc, 12AU7 LF Osc/1st AF, 12AQ5 AF Out and 12X4 Rectifier.

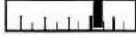
Accessories:

Comments: Tuning ranges: 3.5-4.1, 7-7.6, 14-14.6, 21-21.6, 28-28.6, 28.5-29.1 and 29.1-29.6 MHz plus an optional shortwave band. The speaker is on the rear panel. Very early production did not include the Crystal Calibrator function switched from the Antenna Trimmer control or the built-in speaker. This pace setting radio broke the long standing trend of building larger, ever heavier receivers. This receiver was superior in performance to its contemporaries at a fraction of the size, weight and price. There is strong collector demand for this historically significant model.



Made In: United States 1957-1959

Voltages: 115 VAC 60 Hz 50W

Readout:  Analog Lin.

Physical: 6.75x11x15" 18 Lbs.
171x279x381mm 8.2 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

Review: QST November 1957
CQ September 1986

	New	Used
Price:	\$259-299	\$180-300
Rating:	★★★★	⑦

R.L. DRAKE COMPANY

2-A



Amateur Band Communications Receiver

Triple Conversion Superheterodyne. 10 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S-Meter
- RF Gain
- AVC SLOW/FAST
- Preselector
- Mute Jack
- Sidetone Jack
- Speaker Jack
- Dial Lamp
- BFO
- Standby
- Diode/Prod. Detect.

Specifications:

Coverage Ham. See Comments. Modes AM/LSB/USB(CW)
 Selectivity 4.8/2.4 kHz -6dB. Stability <100 Hz After warmup
 Sensitivity <.5µV 10 dB Image Reject .. >60 dB
 Audio Out 1 W 5% distortion Antenna Input . Terminals 50-75 ohms

Circuit Complement:

6BZ6 RF Amp, 6U8 1st Mixer, 6BE6 VFO 2nd Converter, 6BE6 3rd Converter, 6BA6 50 kHz IF Amp, 6BE6 Product Detector/BFO, 6AV6 1st Audio Amp, 6AQ5 Audio Out, 6BF6 AVC, 6X4 Rectifier and 1N34 Bias Rectifier.

Accessories:

2-AS Speaker 2-AC Calibrator 100 kHz 2-AQ Q-Multiplier/Speaker
 Q-Xer Q-Multiplier

Comments:

Tuning ranges: 3.5-4.1, 6.9-7.5, 13.9-14.5, 20.9-21.5 and 28.5-29.1 MHz plus 7 additional empty ranges. The 2-A has a pre-drilled hole for an SO-239 jack. Requires a speaker. [¥51000].

Made In: United States 1960-1961

Voltages: 120/240 VAC 50/60 40W

Readout:  Analog Lin.

Physical: 12x7x9" 14.5 Lbs.
 304x177x228mm 6.6 kg

Status: Active Manufacturer
 Discontinued Model

Rarity: Common

Review: QST July 1960

	New	Used
Price:	\$270	\$130-190
Rating:	★★★★	⑦

R.L. DRAKE COMPANY

2-B



Amateur Band Communications Receiver

Triple Conversion Superheterodyne. 10 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S-Meter
- RF Gain
- AVC SLOW/FAST
- Preselector
- Mute Line
- Sidetone Jack
- Speaker Terminals
- BFO
- PBT
- Dial Set
- Diode/Prod. Detect.
- Dial Lamp
- ANL
- Socket for Q-Mult.

Specifications:

Coverage Ham. See Comments. Modes AM/LSB/USB(CW)
 Selectivity 3.6/2.1/1.5 kHz -6dB. Stability <100 Hz After warmup
 Sensitivity <.5µV 10 dB Image Reject .. >60 dB
 IF Reject >60 dB Antenna Input . Terminals 50-75 ohms
 Audio Out 1 W 5% distortion

Circuit Complement:

6BZ6 RF Amp, 6U8 1st Mixer, 6BE6 VFO 2nd Converter, 6BE6 3rd Converter, 6BA6 50 kHz IF Amp, 6BE6 Product Detector/BFO, 8BN8 1st Audio Amp/Bias Rectifier/ANL, 6AQ5 Audio Out, 6BF6 AVC, 6X4 Rectifier. Diode detect for AM with BFO off and product detect for SSB/CW with BFO on.

Accessories: 2-AC Calibrator 100 kHz 2-BQ Q-Multiplier/Speaker
 2-LF LF Converter 2-BS Speaker

Comments: Supplied coverage: 3.5-4.1, 6.9-7.5, 13.9-14.5, 20.9-21.5 and 28.5-29.1 MHz plus 7 additional empty ranges. Dial skirt has 40 division representing 1 kHz each. ±1 kHz dial accuracy. The 2-B has a pre-drilled hole for an SO-239 jack. Requires a speaker.

Made In: United States 1961-1965

Voltages: 120/240 VAC 50/60 Hz
 40W

Readout:  Analog Lin.

Physical: 12x7x9" 14.5 Lbs.
 305x179x228mm 6.6 kg

Status: Active Manufacturer
 Discontinued Model

Rarity: Common

Review: 73 August 1961
 Buyer's Guide to Amateur R.

	New	Used
Price:	\$230-280	\$70-200
Rating:	★★★★	⑦

R.L. DRAKE COMPANY

2-C

Amateur Band Communications Receiver

Triple Conversion Superheterodyne. 5 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- RF Gain
- AGC OFF/SLOW/FAST
- Preselector
- Mute Line
- Sidetone Jack
- Speaker Terminals
- PBT
- Dial Lamp
- Standby
- Socket for Q-Mult.

Specifications:

Coverage Ham. See Comments. Modes AM/LSB/USB/CW
 Selectivity 4.8/2.4/.4 kHz -6dB. Stability <100 Hz After warmup
 Sensitivity <.5µV 10 dB S/N Image Reject .. >60 dB
 IF Rejection ... >60 dB Antenna Input . RCA 52 ohm
 Audio Out 1.8W 4 ohm 5% dis.

Circuit Complement:

12BZ6 RF Amp, 12AU6 1st Mixer, 12BE6 VFO 2nd Mixer, 12BE6 3rd Mixer, 12BA6 50 kHz IF Amp, 2N3394 Crystal Osc, 2N3394 AGC Amp, 2N3394 50 kHz Osc, (2) 1N270 Product Detector, 1N270 & 2N3394 AM Detector & Amp, 2N3394 Audio Amp, 40310 Audio Out (2) 1N3194 High Voltage Rectifier, (2) 1N3194 Low Voltage Rectifier, 1N3194 Bias Rectifier. Total circuit: 5 Tubes, 7 transistors and 8 diodes.

Accessories:

2-CS Speaker 2-AC Calibrator 100 kHz 2-NB Noise Blanker
 2-LF LF Converter 2-CQ Spkr/QMult/Notch

Comments: Coverage: 3.5-4, 7-7.5, 14-14.5, 21-21.5 and 28.5-29 MHz plus one 500 kHz positon. Tunes at 45 kHz per revolution. Requires an external speaker. Matches the 2-NT CW transmitter.

Made: United States 1966-1974

Voltages: 120 VAC 50/60 Hz 30W

Readout:  Analog Lin.

Physical: 11.37x6.4x9.4" 13.5 Lbs.
 289x162x239mm 6.1 kg

Status: Active Manufacturer
 Discontinued Model

Rarity: Common

Review: QST December 1966
 CQ June 1967
 73 January 1967

	New	Used
Price:	\$229-295	\$80-180
Rating:	★★★★	⑦



DSR-1

General Coverage Communications Receiver

Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- BFO ±3 kHz.
- AVC (2 Pos.)
- RF Gain
- NB
- ISB
- Preselector
- Mute
- Speaker
- Line Out 600 ohm
- Modular Construction
- 1st IF Out Jack
- 2nd IF Out Jack
- Spinner Knob

Specifications:

Coverage 10 - 30000 kHz Modes AM/USB/LSB/CW/ISB
 Selectivity 6/2.4/1.2/.4 kHz -6dB. Stability < 150 Hz in 15 min. period
 Sensitivity <.5µV 10 dB S/N SSB Image Reject .. >70 dB relative to 1µV
 IF Reject >60 dB RF Blocking >100 dB relative to 1µV
 Audio Out 3 W 4 ohms 5% dist Antenna Input . SO239 50/1000 ohm
 IF 50.5 MHz, 50 kHz

Comments:

The first tuning knob selects 0, 10 or 20 MHz. The second knob selects the frequency in 1 MHz increments. The third knob selects the .1 MHz position. The fourth (large) knob selects the range of 0 to .1 MHz and displays it on the last 3 positions of the digital readout. Display is by digital Nixie tubes. ISB output is to 600 ohm balanced line. A lab quality receiver. A rack mount version was shown in Drake advertising brochures, but few, if any, were made.

Variants:

It has also been reported that receiver was sold by RCA Radio Marine as model 6501. Also see Drake MSR-1.

Made In: United States 1969-1974

Voltages: 115/230 AC
 50-420 Hz 35 W

Readout: **00000.1** Digital Nixie

Physical: 19x5.25x15" 17 Lbs.
 480x133x380mm 7.7 kg

Status: Active Manufacturer
 Discontinued Model

Rarity: Very Scarce

Reviews: Ham Radio October 1971

	New	Used
Price:	\$2195-2700	\$800-875
Rating:	★★★★★	★★★★



DSR-2

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- BFO ± 3 kHz.
- AVC (2 pos.)
- RF Gain
- NB
- ISB
- Preselector .5-10 MHz
- Mute
- Spinner Knob
- Modular Construction

Specifications:

Coverage 10 - 30000 kHz
Selectivity 6/2.4/1.2/.3 kHz -6dB.
Sensitivity $< .3 \mu V$ for 10 dB SSB
IF Reject > 60 dB
Audio Out 2 W 5% distortion
RF Blocking > 100 dB (@1 μV)

Modes AM/SSB-CW
Stability < 200 Hz in 8 hour period
Image Reject .. > 60 dB below 10 MHz.
Image Reject .. > 50 dB above 10 MHz.
Antenna Input . SO239 50 ohms

Accessories:

Filters

Comments:

The first tuning knob selects 0, 10 or 20 MHz. The second knob selects the frequency in 1 MHz increments. The third knob selects the .1 MHz position. The fourth (large) knob, which is continuously adjustable, selects the range of 0 to .1 MHz and displays it on the last 3 positions of the digital readout. ISB output is to 600 ohm balanced line. The preselector is marked RF TUNE and operates only from .5 to 10 MHz. With the RF GAIN control pulled out, the AVC is deactivated. A lab quality receiver. Drake model #1242. [¥250,000].

Made In: United States 1974-1980

Voltages: 120/220/240 AC
50-420 Hz 35 W

Readout: **00000.1** Digital Nixie

Physical: 13.375x5.5x15" 17 Lbs.
340x140x380mm 7.7 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

Reviews: WRTV 1976

	New	Used
Price:	\$2750-3400	\$900
Rating:	★★★★★	⑥



MSR-1

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- BFO ± 3 kHz.
- AGC FAST/SLOW
- RF Gain
- NB
- ISB
- Preselector
- Mute
- Speaker
- Spinner Knob
- Modular Construction
- 1st IF Out Jack
- 2nd IF Out Jack
- Line Out 600 ohm

Specifications:

Coverage 10 - 30000 kHz
Selectivity 6/2.4/1.2/.4 kHz -6dB.
Sensitivity $< .5 \mu V$ for 10 dB SSB
IF Reject > 60 dB
Audio Out 3 W 5% distortion
IF 50.5 MHz, 50 kHz

Modes AM/SSB/CW/ISB
Stability < 40 Hz in 15 min. period
Image Reject .. > 70 dB relative to 1 μV
RF Blocking > 100 dB relative to 1 μV
Antenna Input . SO239 & Terminals

Comments:

The first tuning knob selects 0, 10 or 20 MHz. The second knob selects the frequency in 1 MHz increments. The third knob selects the .1 MHz position. The fourth (large) knob selects the range of 0 to .1 MHz and displays it on the last 3 positions of the digital readout. ISB output is to 600 ohm balanced line. Available in desk or rack mount version. Rack mount version shown above. Marketed towards the marine radio market. Virtually identical to the DSR-1. 12 or 24 VDC supply available as an option.

Made In: United States 1971-1974

Voltages: 115/230 AC
50-420 Hz 15 W

Readout: **00000.1** Digital Nixie

Physical: 5.25x19x15" 17 Lbs.
133x480x380 mm 7.7 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	★★★★	⑥



MSR-2

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- Spinner Knob
- Rack Handles
- S-Meter
- NB
- 2 Preselectors
- Standby
- BFO
- Dial Lock
- ISB
- IF Out Jack
- AVC (2 Pos.)
- Speaker 3x5"
- Speaker Switch
- Line Out 600 ohm

Specifications:

Coverage 10 - 30000 kHz
Selectivity 6/2.4/1.2/.3 kHz -6dB.
Sensitivity <.5µV for 10 dB SSB
IF Reject >60 dB
Audio Out 2W 4 ohms 5% dist.
IF 5.6 MHz, 50 kHz

Modes AM/SSB/CW/ISB
Stability <20 Hz 15 min period
Image Reject .. >60 dB
RF Blocking >100 dB (@1µV)
Antenna Input . 50 ohms SO239

Accessories: Filters

Comments: Designed for rack mounted marine use. The first tuning knob selects 0, 10 or 20 MHz. The second knob selects the frequency in 1 MHz increments. The third knob selects the .1 MHz position. The fourth (large) knob selects the range of 0 to .1 MHz and displays it on the last 3 positions of the digital readout. A separate vernier knob provides fine tuning over ±200 Hz. There are two RF Tune (Preselector) knobs. One is for 30-500 kHz and the other for .5-10 MHz. With the RF GAIN control pulled out, the AVC is deactivated. Front-end protection can withstand 350 Volt emf!

Variants: This model was also produced for Debeg and sold as the **Debeg MSR-2**.

Made In: United States 1977-1978

Voltages: 120/220/240 AC
50-420 Hz 35 W

Readout: **00000.1** Digital Nixie

Physical: 5.25x19x15" 25 Lbs.
133x482x381mm 11.3 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	\$5000A	\$900-1300
Rating:	★★★★	®

R.L. DRAKE COMPANY

R-4

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 13 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- Preselector
- RF Gain
- S-Meter
- IF Notch
- Mute Jack
- Calibrator
- PBT
- Speaker Jack
- AVC FAST/SLOW/OFF
- Dial Lamp
- NB
- Anti-Vox Jack

Specifications:

Coverage Ham. See Comments.
Selectivity 4.8/2.4/1.2/.4 kHz -6dB.
Sensitivity <.5µV 10 dB S/N
I.F. 5645 kHz, 50 kHz
Audio Out 1.4W 4 ohms 5% dist.

Modes AM/LSB/USB(CW)
Stability <100 Hz After warmup
Image Reject .. >60 dB
IF Reject >60 dB
Antenna Input . RCA 50 ohm

Circuit Complement:

12BZ6 RF Amp, 12BA6 Calibrator, 6HS6 1st Mixer, 6HS6 Premixer, 12BE6 2nd Mixer & Crystal Osc, 12BA6 50 kHz IF, 12BA6 50 kHz IF, 12AV6 AVC Amp/AVC Detector, 6GX6 Product Detector/Audio Amp, 6EH6 Audio Output, 12BA6 NB AMP, 12AX7 NB Pulse Amp/Shaper, 1N625 NB Gate, (2) 1N625 AM Detector, ED-3004 Bias Rectifier, (2) 1N3756 PS Rectifiers, 0B2 and 1N625 Voltage Regulator. Product detector for SSB/CW and diode detector for AM.

Accessories:

MS4 Speaker

Comments: Supplied coverage: 3.5-4, 7-7.5, 14-14.5, 21-21.5 and 28.5-29 MHz plus ten 500 kHz crystal positions. Dial accuracy is ±1 kHz. Requires an external speaker. Matches T4 or T4X Transmitter. [¥90,000]

Made In: United States 1964-1965

Voltages: 120/240 VAC 50/60 60W

Readout: Analog Lin.

Physical: 10.75x5.5x11.7" 16 Lbs.
140x273x297mm 7.3 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Review: 73 January 1961

	New	Used
Price:	\$379	\$80-150
Rating:	★★★★	★★★

R.L. DRAKE COMPANY

R-4A

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 12 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- Anti-Vox Jack
- AVC FAST/SLOW/OFF
- Preselector
- IF Notch
- PBT
- Calibrator 100 kHz
- RF Gain
- Mute Jack
- Speaker Jack
- Dial Lamp • NB

Specifications:

CoverageHam. See Comments. Modes AM/LSB/USB(CW)
 Selectivity 4.8/2.4/1.2/.4 kHz -6dB. Stability <100 Hz After warm-up
 Sensitivity <.5µV 10 dB Image Reject .. >60 dB
 IF Reject >60 dB I.F. 5645 kHz, 50 kHz
 Audio Out 1.4 W 4 ohm 5% dist. Antenna Input . RCA 52 ohms

Circuit Complement: 12BZ6 RF Amp, 12BA6 Calibrator, 6HS6 1st Mixer, 6HS6 Pre-mixer, 12BE6 2nd Mixer/Crystal Osc, 12BA6 50 kHz IF, 12BA6 50 kHz IF, 12AV6 AVC Amp/AVC Det., 6GX6 Product Detector/Audio Amp, 6EH6 Audio Output, 12BA6 NB Amp, 12AX7 NB Pulse Amp/Shaper, 2N3858 VFO, 2N3858 VFO Buffer, 2N3394 Crystal Oscillator, 1N714 Voltage Regulator, 0B2 & 1N625 Voltage Regulator, (2) 1N3194 P.S. Rectifiers, 1N3194 Bias Rectifier, 1N625 AM Detector, (2) 1N625 NB Pulse Clippers, 1N625 NB Gate and 1N483 Switching.

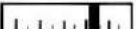
Accessories:

MS-4 Speaker FS-4 Frequency Synthesizer

Comments: Supplied coverage: 3.5-4, 7-7.5, 14-14.5, 21-21.5 and 28.5-29 MHz plus ten additional 500 kHz crystal positions. Dial accuracy is 1 kHz. Transceivers with the T-4 to T-4X. Requires a speaker.

Made In: United States 1966-1967

Voltages: 120/240 VAC 50/60 Hz
60W

Readout:  Analog Lin.

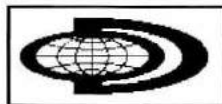
Physical: 10.75x5.5x11.7" 16 Lbs.
140x273x297mm 7.3 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Review: 73 January 1969

	New	Used
Price:	\$379-399	\$100-170
Rating:	★★★★★	★★★



DRAKE

R-4B

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 10 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- IF Notch
- Calibrator 25 kHz
- AVC 3 pos.
- NB
- Preselector
- PBT AM/CW/SSB
- RF Gain
- Mute Jack
- Speaker Jack
- Anti-Vox Jack
- Dial Lamp

Specifications:

CoverageHam. See Comments. Modes AM/SSB-CW
 Selectivity 4.8/2.4/1.2/.4 kHz -6dB. Stability <100 Hz After warm-up
 Sensitivity <.25µV 10 dB Image Reject .. >60 dB
 IF 5645, 50 kHz. Antenna Input . RCA 52 ohms
 Audio Out 1.5 W 4 ohms 5% dist

Circuit Complement:

6BZ6 RF Amp, 6HS6 1st Mixer, 12BE6 2nd Mixer/Crystal Osc, 12BA6 1st IF Amp, 12BA6 2nd IF Amp, 6EH5 Audio Out, 6HS6 Pre-Mix, 12BA6 NB plus 10 transistors, 17 diodes and 2 ICs. Product detector for SSB/CW and diode detector for AM.

Accessories:

MS4 Speaker 4-NB Noise Blanker FS4 Frequency Synthesizer
 SC-6 Converter 6M SC-2 Converter 2M

Comments:

Supplied coverage: 3.5-4, 7-7.5, 14-14.5, 21-21.5 and 28.5-29 MHz plus ten additional 500 kHz crystal positions. Dial accuracy is ±1 kHz. Requires external speaker. Matches T4XB Transmitter. An outstanding amateur receiver.

Made In: United States 1967-1973

Voltages: 120/240 VAC 50/60 Hz
60W

Readout:  Analog Lin.

Physical: 10.8x5.5x11.7" 16 Lbs.
274x140x297mm 7.3 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Review: 73 January 1966
ODXA November 1987

	New	Used
Price:	\$400-475	\$160-200
Rating:	★★★★★	★★★★



R-4C

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 6 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- PBT CW/SSB
- RF Gain
- Dial Lamp
- S-Meter
- Line out
- Mute Jack
- Spinner Knob
- IF Notch
- NB
- Speaker Jack
- Inj Jack
- AGCOFF/FST/MED/SLO
- Calibrator 25 kHz
- Anti-Vox Jack

Specifications:

Coverage Ham. See Comments. Modes AM/LSB/USB(CW)
 Selectivity 8/2.4/ / _ kHz -6dB. Stability <100 Hz After warm-up
 Sensitivity <.25µV 10 dB Image Reject .. >70 dB
 I.F. 5645, 5695, 50 kHz Antenna Input . RCA 52 ohm
 Audio Out 2 W 3.2 ohms 5% dist.

Circuit Complement: 6 Tubes, 15 transistors, 23 diodes and 1 I.C.

Accessories: 4-NB Noise Blanker FS-4 Frequency Synthesizer
 FL-6000 6 kHz Filter FL-1500 1.5 kHz Filter FL-500 .5 kHz Filter
 FL-250 .25 kHz Filter MS-4 Speaker

Comments: Supplied coverage: 3.5-4, 7-7.5, 14-14.5, 21-21.5 and 28.5-29 MHz plus fifteen additional 500 kHz crystal positions. Dial accuracy is ±1 kHz. Bandwidth may be selected independently of mode. Requires external speaker. An outstanding amateur receiver. The optional (and very scarce!) FS-4 shown right provides continuous coverage.



Made In: United States 1973-1979

Voltages: 120/240 VAC 50-420 Hz
60 W

Readout: Analog Lin.

Physical: 10.75x5.5x11.7" 17 Lbs.
273x140x324mm 7.7 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Review: *WRTH* 1976 and 1978
QST January 1974
Buyer's Guide to Amateur R.

	New	Used
Price:	\$500-699	\$190-270
Rating:	★★★★★	★★★★



R-7/DR7

General Coverage Communications Receiver

Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- IF Notch Filter
- Speaker
- S-Meter
- RIT
- Calibrator 25 kHz
- Record Jack
- Preamp 10 dB
- PBT
- Speaker Jack
- Analog Sub-Dial
- AGC SLO/MED/FST/OFF
- Ant Switch (6 Pos.)
- Counter Input Jack

Specifications:

Coverage 10 - 30000 kHz¹ Modes AM/SSB/CW/RTTY
 Selectivity 2.3/ / / / _ kHz -6dB Stability <100 Hz ±10% voltage
 Sensitivity <.2µV SSB 1.8-30 MHz Image Reject .. >80 dB
 IF Reject >80 dB Freq. Accur. 15 PPM ±100 Hz¹
 Ultimate Sel. ... >100 dB IFs 48050, 5645, 50 kHz.
 Audio Out 2.5 W 4 ohm 10% dist. Antenna Input . RCA

Accessories:

MS-7 Speaker NB-7A Noise Blanker AUX-7 Fixed Freq. Board
 SL-6000 6 kHz Filter SL-4000 4 kHz Filter SL-1800 1.8 kHz Filter
 SL-500 .5 kHz Filter SL-300 .3 kHz Filter RV-75 Extl. Synthz. VFO

Comments: ¹Very few, if any, units were manufactured without the DR7 digital display / general coverage board. These units were not general coverage and only with the analog sub-display (accurate to ±1 kHz). The digital display may be used as a digital counter to 150 MHz with external signal source. An excellent receiver for tropical band DXing. Also superb on longwave. Somewhat cumbersome to change frequency (sixty 500 kHz bands) and a bit drifts for radio teletype applications.

Made In: United States 1978-1981

Voltages: 100/120/200/240 AC
50/60 Hz 60 W or
11-16 VDC @ 3A

Readout: **00000.1** Digital LED
Physical: 13.6x4.6x13" 19 Lbs.
346x116x330mm 8.3 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: *WRTH* 1980
Passport 1987
 73 November 1980
QST Jan. & Feb. 1980
Ham Radio October 1978

	New	Used
Price:	\$1295-1549	\$600-710
Rating:	★★★★★	★★★★



R-7A

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Preamp
- AGC SLO/MED/FST/OFF
- RF Gain
- RIT
- PBT
- Ant Switch (6 Pos.)
- IF Notch Filter
- Calibrator
- NB
- Counter Input Jack
- Speaker
- Record Jack
- Analog Sub-Dial
- Speaker Switch

Specifications:

Coverage 10 - 30000 kHz
Selectivity 9/2.3/.5/_ kHz -6dB
Sensitivity <.2µV SSB1.8-30 MHz
IF Reject >80 dB
Ultimate Sel...>100 dB
Audio Out 2.5 W 4 ohm 10% dist.

Modes AM/SSB/CW/RTTY
Stability <100 Hz ±10 voltage
Image Reject .. >80 dB
Freq. Accur. 15 PPM ±100 Hz
IFs 48050, 5645, 50 kHz
Antenna Input . RCA

Accessories:

MS-7 Speaker AUX-7 Fixed Freq. Board RV-75 Extl. Synthz. VFO
SL-6000 6 kHz Filter SL-4000 4 kHz Filter SL-1800 1.8 kHz Filter
SL-500 .5 kHz Filter SL-300 .3 kHz Filter

Comments: This enhanced version included the NB-7A Noise Blanker and 500 Hz filter as standard. This receiver exhibits excellent sensitivity, especially on the lower frequencies. Unlike many receivers, the RIT control does change the displayed frequency. Utilizes sixty 500 kHz bands. It is still a receiver of choice for tropical band DXer's. Rock-solid stability, 10 Hz tuning and two fixed channels if used with optional RV-75 External VFO (very scarce and desirable).

Made In: United States 1981-1983

Voltages: 100/120/200/240 AC
50/60 Hz 60 W or
11-16 VDC @ 3A

Readout: **00000.1** Digital LED

Physical: 13.6x4.6x13" 19 Lbs.
346x116x330mm 8.3 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: *WRTH* 1982
Passport 1987

	New	Used
Price:	\$1489-1649	\$680-800
Rating:	★★★★★	★★★★



R-8

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- AVC (2 Pos.)
- RF Gain
- 100 Memories
- Keypad
- PBT
- Notch Filter
- RS232 port DB9
- Sync. Detection
- Two VFOs
- Scan/Sweep
- Preamp
- Record Jack
- Recorder Activation
- Speaker
- Speaker Switch
- Speaker Jack
- Line Out Jacks (2)
- Mute Jack
- Squelch
- Tone
- Attenuator

Specifications:

Coverage 100 - 30000 kHz
Selectivity 6/4/2.3/1.8/.5 kHz -6dB
Sensitivity <.25µV 2-30MHz 10dBCW
IF Reject >80 dB
IFs 45 MHz, 50 kHz.
Audio Out 2.5 W 4 ohms 10% dist.

Modes AM/SSB/CW/RTTY/FM
Stability ±10 PPM -10° to 50°C
Image Reject .. >80 dB .1-30 MHz
Freq. Accur. ±10 Hz -10° to 50°C
Environment ... -10° to +50°C
Antenna Input . SO239 and Terminals

Accessories:

MS-8 Speaker VHF Converter

Comments: After a nearly ten year hiatus, Drake re-entered the hobbyist receiver market with this very capable and hugely successful model. A 12 kHz FM bandwidth is also supplied. Memories store: Frequency, Mode, Bandwidth, AGC, RF, Antenna, Notch, NB and Synchro settings. The optional internal VHF converter covers 35-55 and 108 to 174 MHz in all modes.

Variants: Model R-8E is an export version that has a different mains plug.

Made In: United States 1991-1995

Voltages: 100/120/200/240 AC
50/60 Hz 40 W or
11 - 16 VDC @ 2A

Readout: **00000.1** Digital

Physical: 13.2x5.25x13" 13 Lbs.
334x134x330 mm 6 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Abundant

Reviews: *Passport* 1992-1995
WRTH 1992
WRTH Buyer's Guide 1993
S.W. Mag. February 1992
R.D.I. White Paper
Pop. Comm. October 1991
ODXA November 1991

	New	Used
Price:	\$980-999	\$650-740
Rating:	★★★★★	★★★★★

DRAKE

R-8A

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Notch Filter
- Scan/Sweep
- Speaker
- Mute Jack
- S-Meter
- Keypad
- RS232 port DB9
- Tilt Stand
- Speaker Switch
- Squelch
- BFO
- PBT
- Sync. Detection
- Preamp
- Speaker Jack
- AVC (2 Pos.)
- 440 Alpha Memos
- Recorder Activation
- Dual Clock-Timers
- Atten. • Tone
- Line Out Jacks (2)

Specifications:

Coverage 100 - 30000 kHz
Selectivity 6/4/2.3/1.8/.5 kHz -6dB
Sensitivity <.25µV 5-30 MHz 10dB
IF Reject >80 dB
IFs 45 MHz, 50 kHz.
Audio Out 2.5 W 10% distortion
Modes AM/SSB/CW/RTTY/FM
Stability ±5 PPM -10° to 50°C.
Image Reject .. >80 dB
Freq. Accur. ±100 Hz -10° to 50°C
Line Output 300 mV
Antenna Input . SO239 & Terminals

Accessories:

MS-8 Speaker VHF Converter

Comments:

All R-8 features and functions are retained. Several ergonomic and performance improvements were added including: Alpha-numeric memories, faster scanning, improved AGC, improved Notch, improved display, easier selection of mode and bandwidth, tilt-bar, enhanced tone control, detachable line cord and expanded RS-232 command set.

Made In: United States 1995-1997

Voltages: 100/120/200/240 AC
50/60 Hz 40 W or
11 - 16 VDC @ 2A

Readout: **00000.1** Digital

Physical: 13.2x5.25x13" 13 Lbs.
334x134x330mm 6 kg

Status: Active Manufacturer
Active Model

Rarity: Common

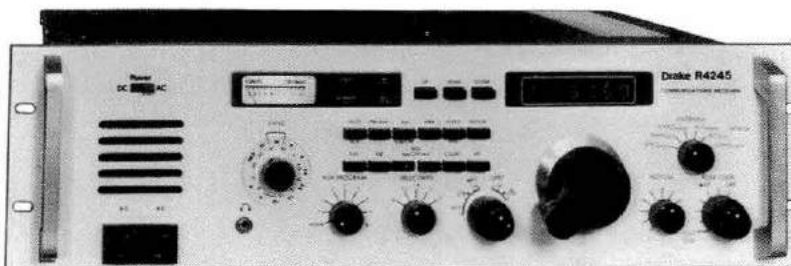
Reviews: *Passport* 1996-1997
WRTH 1996
R.D.I. White Paper
Monitoring Times May 1996
NASWA June 1996

	New	Used
Price:	\$1050-1099	\$750-860
Rating:	★★★★★	★★★★★



R4245

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Preamp
- AGC SLO/MED/FST/OFF
- RF Gain
- RIT
- PBT
- Ant Switch (6 Pos.)
- IF Notch Filter
- Calibrator
- NB
- Counter Input Jack
- Rack Handles
- Speaker
- Spinner Knob
- 8 Fixed Channels

Specifications:

Coverage 10 - 30000 kHz
Selectivity 4/2.3/1.8/.5/3 kHz -6dB
Sensitivity <.2µV SSB 1.8-30 MHz
IF Reject >80 dB
Blocking >145 dB above floor
Ultimate Sel. ... >100 dB
Audio Out 2.5 W 10% distortion
Modes AM/SSB/CW/RTTY
Stability <100 Hz ±10 voltage
Image Reject .. >80 dB
Freq. Accur. 15 PPM ±100 Hz
Third Ord Int. .. +10 dBm with preamp on
IFs 4805, 5645, 50 kHz
Antenna Input . RCA ohm

Accessories:

R577 Cabinet

Comments:

The R4245 is the military-commercial version of the R-7A featuring full frequency synthesis rather than an analog VFO. This synthesized VFO provides more stability than the R-7/A. The front panel is light beige, has built-in speaker and is ready for 19" rack mounting. This premium receiver is scarce. Matches TR4310 transceiver.

Variants:

The Drake model **R-77** seems to be the identical unit.

Made In: United States 1982-1985

Voltages: 100/120/200/240 VAC
50/60 Hz 60 W or
11-16 VDC @3A

Readout: **00000.1** Digital LED

Physical: Rack Version:
19x5.25x12.5" 19 Lbs.
483x133x318mm 8.6 kg
Cabinet Version:
20.75x7.5x14.5"
514x190x368mm

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

Reviews: *Passport* 1985/86, 1987
WRTH 1982

	New	Used
Price:	\$2795-3795	\$1200-2400
Rating:	★★★★★	★★★★

DRAKE

R-8000

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Notch Filter
- Scan/Sweep
- Speaker
- S-Meter
- 100 Memories
- RS232 port
- Preamp
- Speaker Switch
- BFO
- Keypad
- Sync. Detection
- Attenuator
- AGC SLOW/FAST
- PBT
- Two VFOs
- Two Ant Inputs

Specifications:

Coverage 100-30000 kHz +VHF¹
Selectivity 6/4/2.3/1.8/1.5 kHz -6dB
Sensitivity <.25µV 1.8-30 MHz 10dB²
IF Reject >80 dB
IFs 45 MHz, 50 kHz.
Audio Out 2.5W 4 ohm 10% dist.
Ult. Select. >95 dB

Modes AM/SSB/CW/RTTY/FM
Stability <±10 PPM -10° to 50°C.
Image Reject .. >80 dB
Freq. Accur. <±100 Hz -10° to 50°C
Environmental -10° to 50° C.
Antenna Input . SO239 and terminals
Dyn. Range >90 dB .1-30 MHz

Comments:

The R-8000 is a military-commercial version of the R-8. It is designed for 19" rack mounting. ¹The VHF Converter is installed as standard and provides coverage of 35-55 and 108-174 MHz in all modes, with full readout. Drake PC control software also supplied as standard. ² With preamp.

Made In: United States 1992-1995

Voltages: 100/120/200/240 AC
50/60 Hz 42 W or
11-16 VDC @ 2A

Readout: **00000.1** Digital

Physical: 19x5.25x13" 13 Lbs.
483x133x330mm 5.9 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Extremely Scarce

	New	Used
Price:	\$2000	②
Rating:	★★★★	⑥



RR-1

Marine Band Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Speaker
- Spinner Knob
- S-Meter
- Notch Filter
- Speaker Switch
- Mute Jack
- Atten -20 dB
- Rack Handles
- Preselector
- Dial Lamp
- AGC (2 Pos.)
- Calibrator 100 kHz
- Audio In-Out Jack

Specifications:

Coverage See Comments.
Selectivity 4.8/2.4/.4 kHz -6dB.
Sensitivity <1µV 4-26 MHz 20dB SSB
IFs 5.645 MHz, 50 kHz.
Audio Out 2 W 10% distortion
AGC <6 dB AF for 100 dB RF

Modes AM/CW/LSB/USB
Stability <100 Hz After warm-up
Image Reject .. >60 dB <15 MHz.
Image Reject .. >50 dB >15 MHz.
Freq. Accur. ±1kHz with calibrator
Antenna Input . BNC 50 ohms

Accessories:

Line Amplifier RY-4 RTTY Adapter 5-NB Noise Blanker
RP-500 Protector

Comments:

Ranges: .15-.535, 1.5-4, 6-6.5, 8-9, 12-13.5, 16-17.5, 22-23 and 25-26 MHz. Four additional 500 kHz crystal ranges are available. The RR-2 is basically an SPR-4 that has been optimized, rack mounted and fitted with crystals to serve the marine user as a maritime reserve receiver. [¥80,000].

Made In: United States 1971-1977

Voltages: 120/240 AC 50-60 18W
or 24 VDC 24W

Readout:  Analog Lin.

Physical: 19x7x11" 14 Lbs.
490x180x280mm 6.3 kg

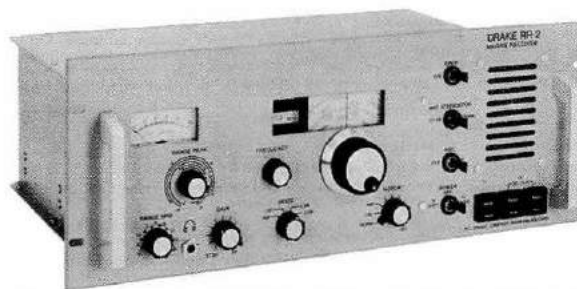
Status: Active Manufacturer
Discontinued Model

Rarity: Very scarce

	New	Used
Price:	\$1450	\$500
Rating:	★★★★★	★★★★★



RR-2



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Speaker
- Dimmer Jack
- S-Meter
- Notch Filter
- Speaker Switch
- Dial Lamp
- Atten. -20 dB
- Rack Handles
- Preselector
- Mute Jack
- AGC OFF/ON
- Calibrator 100 kHz
- Audio In-Out Jack
- Spinner Knob

Specifications:

Coverage 150 - 30000 kHz
Selectivity 4.8/2.4/.4 kHz -6dB.
Sensitivity <1µV 4-26 MHz 20dB SSB
IFs 5.645 MHz, 50 kHz.
Audio Out 2 W 3.2 ohm 10% dist.
AGC <6 dB AF for 100 dB RF
Modes AM/CW/LSB/USB
Stability <100 Hz After warmup
Image Reject .. >60 dB <15 MHz.
Image Reject .. >50 dB >15 MHz.
Freq. Accur. ±1kHz with calibrator
Antenna Input . SO-239 50 ohms

Accessories:

Line Amplifier RY-4 RTTY Adapter 5-NB Noise Blanker
RP-500 Protector

Comments:

Similar to the RR-1 but with continuous coverage provided by a frequency synthesizer which generates an injection signal every 500 kHz and PTO which tunes a 500 kHz range. PTO over-travel allows an additional 50 kHz off each band edge. The RR-2 is classified as a marine "reserve" (i.e. backup) receiver.

Made In: United States 1974-1980

Voltages: 120/240 AC 50-60 40W
or 24 VDC 24W

Readout: Analog Lin.

Physical: 19x7x11" 14 Lbs.
483x178x279mm 6.35 kg

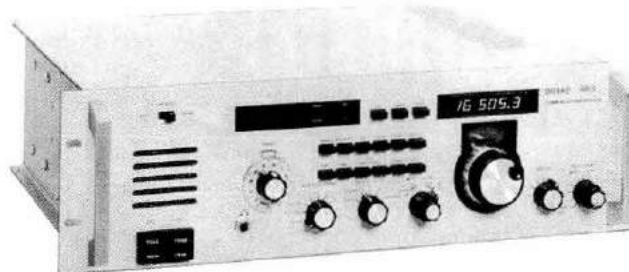
Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	\$1795	\$700-750
Rating:	★★★★★	★★★★★



RR-3



General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- IF Notch Filter
- Rack Handles
- S-Meter
- RIT
- Calibrator
- Speaker
- Preamp
- PBT
- Analog Sub-dial
- Spinner Knob
- AGC SLO/MED/FST/OFF
- Preset 500, 2182 kHz
- AC/DC Switches
- 8 Fixed Channels

Specifications:

Coverage 10-30000 kHz
Selectivity 10/2.3/_/_/_ kHz
Sensitivity <.2µV 2-30 MHz SSB
IF Reject >80 dB
Ultimate Sel. ... >100 dB
Audio Out 2.5 W 10% distortion
Modes AM/SSB/CW/RTTY
Stability <150 Hz/hour after 1 hour
Image Reject .. >80 dB
Blocking >100 dB relative to 1µV
IFs 48.05, 5.645 MHz, 50 kHz.
Antenna Input . 50 ohms

Accessories:

SL-6000 6kHz Filter SL-4000 4 kHz Filter SL-1800 1.8 kHz Filter
SL-500 .5 kHz Filter SL-300 .3 kHz Filter NB7A Noise Blanker
R577 Cabinet IN7 DC to DC Isolation PS

Comments:

Similar to the R-7, but with different filters, without the antenna switch and rack mounted. Additionally, presets for 500 and 2182 kHz distress channels and 24 VDC operation make the RR-3 I.T.U. approved for use as ship's main or reserve receiver. AC and DC fuses are accessible from the front panel. The RR-3 features a built-in Drake RP-700 receiver front-end protector. White metal cabinet. [¥180,000].

Made In: United States 1982-1983

Voltages: 100/120/200/240 VAC
50/60 Hz 60 W or
24 VDC ±15% 65W

Readout: **00000.1** Digital LED

Physical: 19x5.25x14" 19 Lbs.
483x133x356mm 8.6 kg
514x190x368mm

Status: Active Manufacturer
Discontinued Model

Rarity: Extremely Scarce

	New	Used
Price:	\$2395	\$1000-1400
Rating:	★★★★★	★★★★★



SPR-4

Shortwave Broadcast Band Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- IF Notch
- Speaker
- RF Gain
- Mute Jack
- Speaker Jack
- Anti-Vox Jack
- Preselector
- Dial Lamp
- Dial Lamp Switch
- Audio In-Out Jack
- Spinner Knob

Specifications:

Coverage See Comments.
Selectivity 4.8/2.4/.4 kHz -6dB.
Sensitivity <.25µV 10 dB CW/SSB
I.F. 5645, 50 kHz
Audio Out 3 W 4 ohms 5% dist.
Modes AM/LSB/USB/CW
Stability <100 Hz After warmup
Image Reject .. >60 dB below 15 MHz
Image Reject .. >50 dB above 15 MHz
Antenna Input . RCA 50 ohm

Accessories:

MS-4 Speaker 5-NB Noise Blanker FS-4 Frequency Synthesizer
AL-4 LW/MW Loop RY-4 RTTY Unit TA-4 Transceive Adapter
Filters DC-PC 12 VDC Cord SCC-4 Calibrator 100 kHz

Comments:

Ranges: .15-.5, .5-1, 1-1.5, 6-6.5, 7-7.5, 9.5-10, 11.5-12, 15-15.5, 17.5-18 and 21.5-22 MHz. Fourteen additional 500 kHz crystal positions are available. Dial accuracy is ±1 kHz. Drake's first completely solid-state receiver. May be used for transceive with the T-4 or T-4XB/C with TA-4 adapter.

Made In: United States 1969-1978

Voltages: 120/240 VAC 18W
or 12 VDC 6W

Readout: Analog Lin.

Physical: 10.75x5.5x12.25" 14 Lbs.
274x140x324mm 8.2 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Review: *Popular Elec.* Nov. 1974
QST December 1970
WRTH 1976
CQ November 1970

	New	Used
Price:	\$379-699	\$200-260
Rating:	★★★★★	★★★



SSR-1

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Preselector
- Speaker
- RF Gain
- Mute Jack
- Record Jack
- Dial Light
- Clairify ±3 kHz
- Telescopic Ant.
- Dial Light Switch
- Atten. -20 dB
- Spinner Knob

Specifications:

Coverage 500 - 30000 kHz
Selectivity 5.5/3 kHz -6dB.
Sensitivity <.5µV 10 dB 2-30 MHz CW
Dial Accur 5 kHz.
Audio Out 2 W 8 ohms
I.F. 44.5-45.5 MHz, 455 kHz
Modes AM/LSB/USB/CW
Image Reject .. >50 dB
IF Reject >50 dB below 20 MHz
IF Reject >40 dB above 20MHz
Antenna Input . Single Terminal 75 ohm

Accessories:

DC-PC 12 VDC Cord

Comments:

The MHz knob (top left) tunes inner MHz dial on display. The main tuning knob (large) rotates the outer dial (10 kHz graduations). If the AC line voltage fails and automatic circuit switches to the internal D cells. The dial lamp is always lit when operating on AC power. The dial light button must be pressed when the receiver is operating on batteries. This model did not live up to the usual high performance level of Drake receivers but represented a decent value for the money. This SSR-1 was made in Japan and is the only model not manufactured by Drake in Ohio.

Made In: Japan 1975-1978

Voltages: 117/240 VAC 50-60 or
8 D cells

Readout: Analog Lin.

Physical: 13x5.5x11" 14 Lbs.
330x140x280 mm 6.4 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Review: *WRTH* 1978
Popular Elec. January 1977
73 July 1977

	New	Used
Price:	\$299-350	\$100-160
Rating:	★★	★★



SW-1

General Coverage Broadcast Receiver

Double Conversion Superheterodyne. Solid State.



Features:

- Mini Head. Jack
- RF Gain
- Keypad
- 32 Memories
- Speaker
- Dimmer
- 2 Tuning Speeds

Specifications:

Coverage 100 - 30000 kHz Modes AM
 Selectivity 5.5 kHz -6dB Stability ± 10 PPM 0° to 50°C.
 Sensitivity <2 μ V 10dB Environment ... 0° to +50°C
 IFs 45 MHz, 455 kHz. Antenna Input . SO239 & Terminal
 Audio Out 7 W 10% distortion

Accessories:

Carrying Handle Automotive Bracket

Comments:

Tuning may be accomplished by the manual tuning dial, the Up/Down buttons or via direct keypad entry. This receiver is designed with simplicity in mind, primarily for the general consumer market. It does not have SSB/CW capability. A huge, easy-to-read 3/4 inch LED frequency display is featured.

Variants:

This model is similar to the model **PRN-1000** marketed on shortwave radio by the *People's Radio Network*. However, the newer SW-1 has 32 memories instead of one and an RF Gain instead of a Tone control. It also has improved signal handling capability and adjacent interference rejection capability.

Made In: United States 1996-1997

Voltages: 12 VDC @.4A via supplied 120 VAC adapter.

Readout: **00001.** Digital LED

Physical: 10.875x4.4x7.675" 4.7Lbs.
276x112x195mm 2.1 kg

Status: Active Manufacturer
Active Model

Rarity: Scarce

Reviews: *Passport* 1997
Pop Comm. December 1996
Mon. Times August 1996

	New	Used
Price:	\$300	\$160
Rating:	★★★	★★★



SW-4A

Shortwave Broadcast Band Receiver

Double Conversion Superheterodyne. 6 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- Preselector
- Speaker
- Tone
- Speaker Jack
- Dial Adjust
- Dial Lamp

Specifications:

Coverage See Comments. Modes AM
 Selectivity 5 kHz -6dB. Stability <100 Hz After warmup
 Sensitivity <2 μ V AM 10 dB I.F. 5645 kHz, 455 kHz
 Audio Out 4/8 ohm 2 W 5% dis. Antenna Input . 52 ohm Terminals only.

Circuit Complement:

12BZ6 RF Amp, 6HS6 1st Mixer, 12BE6 2nd Mixer, 12BA6 1st IF Amp, 12BA6 2nd IF Amp, 6HS6 Premix, 2N3394 Crystal Osc, 2N3858 VFO Buffer, 2N706 VFO, 2N3858 AGC Amp, (2) 2N3394 AF AMP, 40310 RCA Audio Out, 1N483 AVC Clamp, 1N714 Voltage Regulator, 1N270 Detector, 1N3194 Bias Rectifier and (4) 1N3194 PS Rectifier.

Accessories:

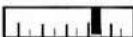
MS-4 Speaker AL-4 LW/MW Loop Antenna

Comments: Ranges: .15-.5, .485-1.05, .95-1.55, 5.95-6.55, 6.95-7.55, 9.45-10.05, 11.45-12.05, 14.95-15.45, 17.45-18.05, 21.45-22.05 and 25.45-26.05 MHz Dial accuracy is ± 3 kHz. Note that this model does not receive CW/SSB. The front is marked with a logo for the defunct shortwave station, *WNYW Radio New York Worldwide*. Requires a speaker. The AL-4 Loop is scarce. Becoming collectable.

Variants: Model **SW-4** has a band and a range switch plus 3 aux. crystal sockets.

Made In: United States 1967-1974

Voltages: 120/240 VAC 50/60 Hz
30 W

Readout:  Analog Lin.

Physical: 10.75x5.5x12.25" 16 Lbs.
273x139x311mm 7.3 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

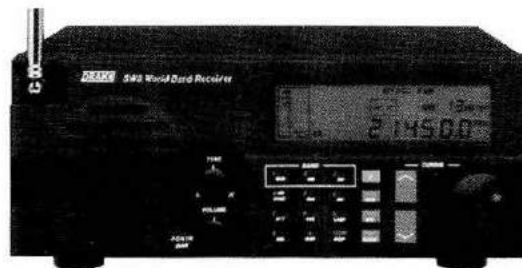
Review: *Popular Elec.* Nov. 1972

	New	Used
Price:	\$289-335	\$140-180
Rating:	★★★★	★★



SW-8

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- Mini Head. Jack
- S-Indicator
- BFO
- AGC FAST/SLOW
- 70 Memories
- Memory Scan
- Scan/Sweep
- Dual Clock-Timer
- Tone
- Speaker
- Sync. Detection
- Tels. Whip Antenna
- Keypad
- Whip Preamp
- Attenuator
- Squelch (VHF air)
- Backlit Display
- Record Jack
- Ant Select Switch
- Dial-Keypad Lock

Specifications:

Coverage See Comments. Modes AM/SSB/CW
Selectivity 6/4/2.3 kHz -6dB Stability ± 10 PPM 0° to 50°C.
Sensitivity $< .5\mu\text{V}$.5-30 MHz 10dB Image Reject .. > 80 dB .5-30 MHz
IF Reject > 80 dB Freq. Accur. ± 100 Hz @50°C
IFs 55.845 MHz, 455 kHz. Environment ... 0° to +50°C
Dyn. Range ... > 95 dB .5-30 MHz SSB Antenna Input . SO239 or Terminals
Audio Out 2.5 W 10% distortion

Accessories:

MS-8 Speaker Canvas Carrying Case

Comments: Coverage: 500 - 30000 kHz, FM band 88-108 MHz and VHF Air band 118-137 MHz. Memories store: Frequency, Mode, Bandwidth, AGC, Attenuator and Sync. settings. The carrying handle is removable. Units produced after 03/31/95 (S/N ≥ 5 C) feature a preamp circuit for the telescopic whip antenna. Units produced after 01/01/96 (S/N ≥ 6 A) include coverage down to 100 kHz (long wave) and have selectable sideband syncro.

Made In: United States 1994-1997

Voltages: 7-10 VDC @1A via supplied AC wall adapter. Or six D cells mounted internally.

Readout: **00000.1** Digital LCD

Physical: 11.5x5.25x13" 10 Lbs.
292x133x330mm 4.5 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Abundant

Reviews: *Passport* 1995-1997
R.D.I. White Paper
WRTH 1995
Mon. Times August 1994
Mon. Times November 1996
NASWA July 1994

	New	Used
Price:	\$589-699	\$350-435
Rating:	★★★★★	★★★★★

Eddystone Radio was established in 1923. Initially they produced components, but quickly added assembled receivers, starting with a battery operated, two tube medium wave set.

The first H.F. receiver, simply called the *Eddystone Short-wave*, was also a two tubed affair covering 3.5 to 20 MHz. In 1928 the *Scientifics* series was introduced. In the thirties, Eddystone focused on robustly built export receivers for commercial enterprises through the Empire. Eddystone customers included rubber, coffee, tea, sugar and cocoa plantations. For the domestic hobby market models such as: *The Kilodyne Four*, *The Sphinx*, *The Homeland* and *The Overseas Four* were introduced. Ground breaking engineering in the VHF area also occurred.

The early sixties saw the acquisition of Eddystone by the Marconi company. In the 1990s Eddystone became a major provider of FM broadcast transmitters.

Model number prefixes are as follows: EA stands for Eddystone Amateur receiver, EB stands for Eddystone Broadcast receiver and EC stands for EC Communications receiver. Like Hallicrafters in the U.S., Eddystone produced a staggering number of different models. Used models are common in the U.K., but usually scarce in America. Eddystone enthusiasts should consider joining the *Eddystone User Group* referenced in *Chapter 4*.

Eddystone Radio Ltd.

Alvechurch Road
Birmingham 31
England

1965-1978

Eddystone Radio Ltd.

Marconi Communications Ltd.
Alvechurch Road
Birmingham B31 3PP
England

1979-1996

Eddystone Radio Ltd.

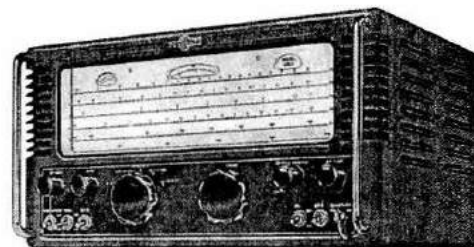
Unit 8/9, Birkdale Avenue
Heeley Road, Selly Oak
Birmingham B29 6U8
England

1996-1997



680X

General Coverage Communications Receiver
Double Conversion Superheterodyne. 15 Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- Standby
- S-Meter
- BFO
- NL
- Rack Handles
- Mute
- Dial Lamp
- Calibrator 100 kHz
- AVC ON/OFF
- Dimmer (back panel)

Specifications:

Coverage 480 - 30000 kHz.
Selectivity 6/3/1.3 kHz -6dB.
Audio Out 2.5 W
Modes AM/LSB/USB
IF 450 kHz
Antenna Input . 400 ohms

Circuit Complement:

6BA6 RF Amp, 6BA6 RF Amp, 6BE6 Mixer, 8D3 Local Osc, 6BA6 IF, 6BA6 IF, 6AL5 Detector/AVC, 6BR7 AF, 6BR7 AF, 7D9 Audio Amp, 7D9 Audio Amp, 6BA6 BFO, 6AL5 S-Meter/NL, 5Z4QT Rectifier and VR150 Voltage Stabilizer. Two RF stages and two IF stages.

Accessories: Rack Mount

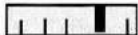
Comments: The 680 series was introduced in 1949 and represented Eddystone's top of the line for many years. The headphone jack is on the left side panel. An early pre-production 9 tube 680 is reported to have the the headphone jack on the front. Gray metal case.

Variants:

The initial model, simply called the **680** did not have a crystal filter and product detector. The 680X has features a 6BE6 for V3 rather than the 7S7 found in the 680. Model **680/2** and **680/2A** were produced for the New Zealand post office.

Made In: England 1952-1960

Voltages: 110/125 200/250 VAC
40-60 Hz 80W

Readout:  Analog

Physical: 16.75x8.75x15"
426x222x381 mm

Status: Active Manufacturer
Discontinued Model

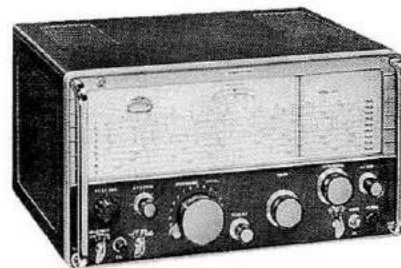
Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



830/2

General Coverage Communications Receiver
Double Conversion Superheterodyne. 13 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Rack Handles
- Calibrator 100 kHz
- RF Gain
- BFO
- Mute
- 8 Crystal Positions
- Dial Light
- Speaker Out
- Line Out
- IF Out

Specifications:

Coverage 300 - 30000 kHz. Modes AM/LSB/USB
Selectivity 6/3/1.3 kHz -6dB. Stability ± 2 kHz. after 10 mins.
Sensitivity $< 3\mu V$ for 15 dB CW. Image Reject .. > 70 dB 1.5-10 MHz
Audio Out 2.5/600 ohm 2.5 W Image Reject .. > 50 dB 10 -30 MHz
Dial Accuracy ± 1 kHz. IF 1250-1450 kHz, 100 kHz

Accessories:

Rack Mount EP20 Panoramic Adapter

Comments:

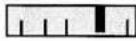
8 Internal crystal positions are available for fixed operation.

Variants:

The 830/2 is the general production version of the 830 series. Model 830/1 is identical to the 830/2 but with smaller "pointer" knobs for Selectivity, Mode switch and AGC/NL switch. Model 830/3 uses a different RF Gain knob than the 830/2. Model 830/4 covers 120-560 and 1500-30000 kHz., and features a different mains connector, different cabinet screws and different incremental scale. Model 830/5 was produced for Sweden. Models ending in /RM are for rack mounting.

Made In: England 1965-1969

Voltages: 110/125 200/250 VAC
40-60 Hz

Readout:  Analog

Physical: 16.75x8.75x15" 49 Lbs
426x222x381mm 22 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	\$995	\$350-400
Rating:	⑥	⑥



830/7

General Coverage Communications Receiver
Double Conversion Superheterodyne. 15 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Rack Handles
- Calibrator 100 kHz
- RF Gain
- BFO
- Mute Line
- 8 Crystal Positions
- Dial Light
- AGC
- ANL
- 140:1 Reduction
- Speaker Out
- IF Output
- Line Out 600 Ohm
- Line Out 2000 Ohm

Specifications:

Coverage 300 - 30000 kHz. Modes AM/LSB/USB/CW
Selectivity 6/3/1.3 kHz -6dB. Dial Accuracy . ± 1 kHz.
Sensitivity $< 1\mu V$ for 15 dB CW. Image Reject .. > 70 dB 1.5-10 MHz
Audio Out 2.5W 3 ohm 10% dist. Image Reject .. > 50 dB 10 -30 MHz
Inter. Freq. 1250-1450, 100 kHz. Antenna Input . 75 ohms

Circuit Complement: 6ES8 RF Amp, 6AK5 1st Mixer, 6AJ8 2nd Mixer/2nd Osc Iso. Amp, 6C4 2nd Local Osc, 6BA6 1st 100 kHz IF Amp, 6BA6 2nd 100 kHz IF Amp, 6AL5 AM NL, 6AU6 Cathode Follow, 6AT6 AM Detector AGC Rectifier, 6AQ5 Audio Out, 6AU6 Calibrator, 6U8 1st Local Osc, 6BE6 CW/SSB Detector, (2) 0A2 HT Stabilizer plus 4 diodes. Single conversion below 1.5 MHz.

Accessories: Rack Mount EP20 Panoramic Adapter

Comments: Ranges: .30-.5, .5-.85, .58-1.5, 1.5-2.5, 2.5-4, 4-6.8, 6.8-11, 11-18 and 18-30 MHz. Replaces the 830/2.

Variants: Model 830/7/RM is configured for mounting in standard 19 inch rack. Model 830/8 is DWS version. Model 830/9 has synthesized osc. input. Model 830/10 is the Canadian version. Model 830/H was sold under the STC label.

Made In: England 1969-1973

Voltages: 110/125 200/250 VAC
40-60 Hz 85W

Readout:  Analog Lin.

Physical: Cabinet Version.
16.75x8.75x15" 49 Lbs
426x222x381 mm 22.2 Kg
Rack Version:
19x8.75x13" 50 Lbs
483x222x330mm 22.7 kg

Status: Active Manufacturer
Discontinued Model

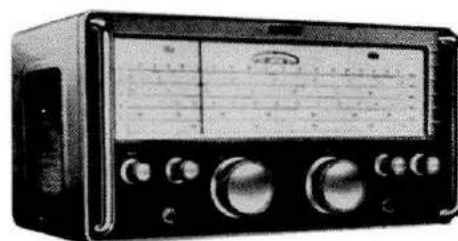
Rarity: Very Scarce

	New	Used
Price:	\$710	\$350-420
Rating:	⑥	⑥



840C

General Coverage Communications Receiver
Single Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Rack Handles
- AGC
- RF Gain
- Speaker
- Tone
- BFO
- Mute
- Standby
- Logging Scale

Specifications:

Coverage 480 - 30000 kHz
Selectivity 20 kHz -30dB.
Sensitivity <10 μ V 15 dB S/N
Audio Out 1.2 W
Modes AM/CW/SSB
IF 450 kHz
Image Rej >15 dB
Antenna Input . 50 Ohm

Comments:


Ranges: .48-1.15, 1.15-2.58, 2.5-6.1, 5.2-12.9 and 12.4-30 MHz. The dial frequency readout is not too accurate. However, the logging scale allows you to quickly and accurately return to a previously heard frequency. Audio quality is good. Two tone gray metal cabinet.

Variants:

The initial model **840** had only four bands and seven tubes 1953-1954. Model **840A** was an updated 840 version 1955-1961. The 840C has a low impedance antenna input, while the 840 and 840A have high impedance antenna input. At first glance the model **850/4** looks similar to the 840C. However, the 850/4 is strictly a long wave receiver. It covers 10 to 600 kHz six ranges. A great unit for LW DXing.

Made In: England 1962-1968

Voltages: 110/125 200/250 VAC
40-60 Hz 60W or DC

Readout:  Analog

Physical: 17x9x11" 28 Lbs
430x230x280mm 12.7 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	\$260	⑤
Rating:	⑥	⑥



880/2

General Coverage Communications Receiver
Double Conversion Superheterodyne. 23 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Speaker
- AGC FST/SLO/SSB
- RF Gain
- IF Gain
- ANL
- Line Out 600 ohms
- Mute
- Rack Handles
- AF Filter
- Calibrator 100 kHz
- Audio In Jack
- Fine Tuning
- IF Out 500 kHz

Specifications:

Coverage 500 - 30500 kHz
Selectivity 14/7/3/_/_ kHz -6dB.
Sensitivity <1 μ V for 15 dB CW
Audio Out 0.75W 2.5 ohm 10% dis.
IF 450 kHz
Modes AM/SSB/CW
Stability \pm 20 Hz. after 4 hours.
IF Rejection 60 dB
Image Reject .. >15 dB

Accessories:

Rack Mount
A Filter 400 Hz B Filter 1.2 Hz C Filter 3 kHz
LP2773 SSB Filter

Comments:

The 880/20 tunes in 30 1 MHz ranges (24 revolutions per range) yield a tuning accuracy of \pm 1kHz. Two optional filter slots available. Ranges: .48-1.15, 1.15-2.58, 2.5-6.1, 5.2-12.9 and 12.4-30 MHz. Has 140:1 tuning reduction.

Variants:

The initial model **880** was sold from 1959 to 1961. Model **880/3** was sold as Marconi H2301.

Made In: England 1961-1969

Voltages: 110/125 200/250 VAC
40-60 Hz

Readout:  Analog Lin.

Physical: Cabinet Version:
19.5x9.5x20.5" 99 Lbs.
495x239x521mm 44.9 kg
Rack Version:
19x8.75x20.5" 87 Lbs.
483x222x521mm 39.5 kg

Status: Active Manufacturer
Discontinued Model

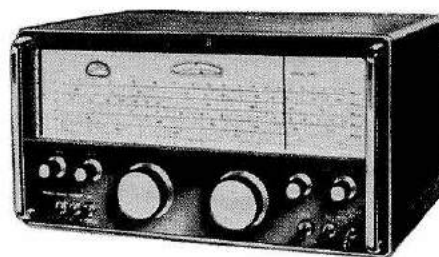
Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



940

General Coverage Communications Receiver
Double Conversion Superheterodyne. 13 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Rack Handles
- BFO
- RF Gain
- ANL
- Standby
- Calibrator
- Mute
- Logging Scale

Specifications:

Coverage 480 - 30000 kHz Modes AM/CW/SSB
Sensitivity <3µV 15 dB S/N

Circuit Complement:

Two RF stages.

Comments:


One of Eddystone's last tube receivers.

Variants:

Model 940/1 has one fixed crystal position. Model 940/2 is configured for vehicular use. Model 940/3 produced for Her Majesty's Coast Guard. Eddystone's first solid state receiver was the 960 which had 19 transistors and physically resembled the 940.

Made In: England 1962-1969

Voltages: 110/125 200/250 VAC
40-60 Hz

Readout:  Analog

Physical: 17x9x11"
430x230x280mm

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	\$350	⑤
Rating:	⑥	⑥



1001

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/Battery Meter
- Dual Speakers
- 10 Crystal Positions
- RF Gain
- Rack Handles
- Mute Line
- Fine Tuning
- Dial Light
- Standby
- BFO
- AGC MAN/LNG/SHT
- Logging Scale
- Speakers
- Dial Lamp Switch
- Flywheel Drive

Specifications:

Coverage 550 - 30000 kHz Modes AM/SSB/CW
Selectivity 10/4 kHz -6dB. Stability 1part in 10⁴
Sensitivity <5 µV 1.5-30 MHz AM IF Rejection >85 dB 1.5-30 MHz
Audio Out 0.6 W 5% dist. IF Rejection >70 dB .55-1.5 MHz
Environment .. 0° to 50° C. Image Rej >50 dB at 2 MHz
I.F. 455 kHz Image Rej >35 dB at 18 MHz
Antenna Input 75 ohm / 400 ohm

Accessories:

Rack Mounting Kit

Comments:

Ranges: Band 1: 18-30, Band 2: 8.5-18, Band 3: 3.6-8.5, Band 4: 1.5-3.8, Band 5: .55-1.5 MHz. Crystals can be fitted without removing the outer covers. Internal batteries automatically take over in the event of a power loss at the mains.

Variants:

Model 1000 is the same as the 1001, less the 10 crystal positions 1971-1974. Model 1001/1 is a rack version of the 1001.

Made In: England 1973-1974

Voltages: 100/130 or 200/260 VAC
40-60 Hz and 12VDC
and NiCad batteries

Readout:  Analog

Physical: 13.2x5.375x9.5" 18 Lbs.
335x137x242mm 8.2 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: *Ham Radio* January 1974

	New	Used
Price:	\$900	⑤
Rating:	⑥	⑥



1002

General Coverage Broadcast Receiver

Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/Battery Meter
- Dual Speakers
- Stereo Lamp
- Tone
- Rack Handles
- Mute Line
- Fine Tuning
- Dial Light
- AFC (2 Pos.)
- Standby
- Logging Scale
- Telescopic Whip
- Line Out
- Flywheel reduction drive
- Dial Lamp Switch

Specifications:

Coverage 150 - 30000 kHz¹ +FM
Selectivity 1 kHz -6dB. [250 FM]
Sensitivity <5 μ V 1.5-30 MHz AM
Audio Out 0.5 W 5% dist.
Environment .. 0° to 50° C.
I.F. 455 kHz
Antenna Input 75 ohm / 400 ohm

Modes AM/SSB/CW [FM-W]
Stability 1part in 10⁴
IF Rejection >85 dB 1.5-30 MHz
IF Rejection >60 dB .55-1.5 MHz
Image Rej >50 dB at 2 MHz
Image Rej >35 dB at 18 MHz

Comments:


Band ranges: Band 1: 18-30, Band 2: 8.5-18, Band 3: 3.6-8.5, Band 4: 1.5-3.8, Band 5: .55-1.5, Band 6: .150-.350 MHz. ¹Gap from 350-550 kHz. Internal batteries automatically take over in the event of a power loss at the mains. A telescopic rod aerial for MW and FM reception is mounted at the rear of the case. FM band reception is stereo.

Variants:

Model 1002/1 is the same but without Nicad batteries and telescopic whip antenna.

Made In: England 1973-1975

Voltages: 100/130 or 200/260 VAC
40-60 Hz and 12VDC
and NiCad batteries

Readout:  Analog

Physical: 13.2x5.375x9.5" 18 Lbs.
335x137x242mm 8.2 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

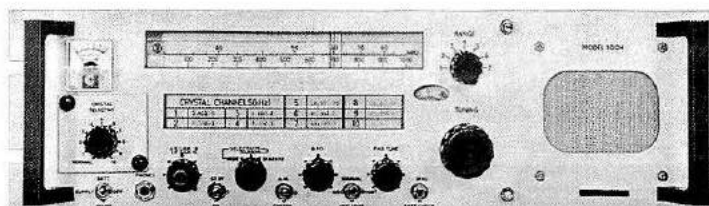
	New	Used
Price:	①	⑤
Rating:	⑥	⑥



1004

General Coverage Communications Receiver

Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/Battery Meter
- Speaker
- 10 Crystal Positions
- RF Gain
- Rack Handles
- Mute Line
- Fine Tuning
- Dial Light
- Standby
- BFO \pm 3 kHz
- AGC MAN/LNG/SHT
- Line Out
- Logging Scale
- 2182 kHz Fixed
- Flywheel reduction drive

Specifications:

Coverage See Comments.
Selectivity 8/3 kHz -6dB.
Sensitivity <5 μ V 1.6-30 MHz AM
Audio Out 0.6 W 5% dist.
Environment .. -15° to 55° C.
I.F. 720 kHz

Modes AM/SSB/CW
Stability 1part in 10⁴
IF Rejection >90 dB 12-30 MHz
IF Rejection >75 dB .55-12 MHz
Image Rej >60 dB at 1.6 MHz
Image Rej >40 dB at 18 MHz

Antenna Input 50/75 ohm

Comments: Band ranges: Band 1: 18-30, Band 2: 8.5-18, Band 3: 3.6-8.5, Band 4: 2.6-3.8, Band 5: 1.6-2.65, Band 6: .380-535, Band 7: .15-.385 MHz. Note that there is no MW reception. Crystals can be fitted without removing the outer covers. Fixed 2182 kHz reception for monitoring the international distress channel is standard. Designed for 19" rack mounting. Cabinet is optional. Internal batteries automatically take over in the event of a power loss at the mains.

Variants: This model was also sold as the MIMCO Sentinel and the Hagenuk E92. It was also produced for Redifon and ITT.

Made In: England 1973-1975

Voltages: 100/130 or 200/260 VAC
40-60 Hz and 12VDC
and NiCad batteries

Readout:  Analog

Physical: 19x5.25x10" 17 Lbs.
488x133x250mm 8.2 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



1570

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Dial Light
- Record Jack
- S/Battery Meter
- Rack Handles
- Standby
- Audio In Jack
- Speaker
- Mute Line
- Tone
- Tilt bar
- Fine Tuning
- BFO ± 3 kHz

Specifications:

Coverage 150 - 30000 kHz +FM
Selectivity 10/4 kHz -6dB.[250 FM]
Sensitivity <2 μ V -12 dB S/N CW
Audio Out 2.5 W 4 ohm 5% dist.
BFO Range ... ± 3 kHz.
I.F. 455 kHz [FM 10.7 MHz]
Modes AM
Environment ... 0 to 40° C. 95% Humid.
IF Rejection ... >70 dB 2 MHz
Image Rej >50 dB at 2 MHz
Image Rej >25 dB at 22 MHz

Comments:

Coverage gap from 350-550 kHz. FM display resolution is 10 kHz. The Tone and BFO share the same knob.

Variants:

Model 1570/3 has 100 kHz display resolution.

Made In: England 1979-1981

Voltages: 100-230 or 200-250 VAC
40-60 Hz and 12VDC
and optional NiCad battery

Readout: **00001.** Digital LED

Physical: 16x5x13" 20 Lbs
410x133x330mm 9 kg

Status: Active Manufacturer
Inactive Model

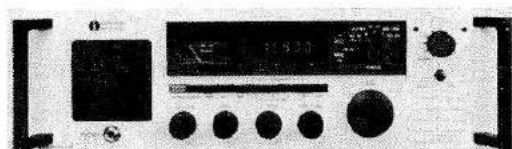
Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



1590

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- IF Gain
- AGC (2 pos)
- S/Battery Meter
- Rack Handles
- BFO
- Speaker
- Mute Line
- IF Output
- 10 Crystal Positions
- Fine Tuning

Specifications:

Coverage 150 - 30000 kHz +FM
Selectivity 10/4/2.5/.3 kHz -6dB
Sensitivity <1 μ V -12 dB S/N CW
Audio Out 2.5 W 4 ohm 5% dist.
BFO Range ... ± 3 kHz.
Environment ... 0 to 40° C. 95% Humid.
Modes AM/LSB/USB
Stability 1part in 10⁴ /°C.
I.F. 455 kHz
IF Rejection ... >70 dB 2 MHz
Image Rej >70 dB at 2 MHz
Image Rej >25 dB at 22 MHz

Accessories:

Cabinet

Comments:

Coverage gap from 350-550 kHz. Designed for 19" rack mounting. The ten crystals can be changed from the front panel.

Made In: England 1980-1981

Voltages: 100/120 200/250 VAC
40-60 Hz or 12VDC

Readout: **00001.** Digital LED

Physical: Rack Version:
19x5.25x13" 22 Lbs.
483x133x330mm 10 kg

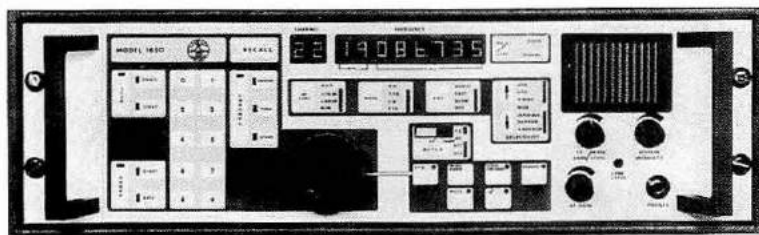
Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



1650/1



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- Line Out Jack
- Scan & Sweep
- Speaker Switch
- BFO ± 3.9 kHz
- Speaker
- Ext. Spkr Jack
- IF Out 1.4 MHz
- Dimmer
- Standby
- 99 Memories
- RS232C/422A
- Rack Handles
- Self Diagnostics
- Keypad
- Atten. -10/20/40 dB
- AGC OFF/FST/SLO/AUD
- Ant. Switch (4 Pos).
- Membrane Front.
- Ext Ref. Input

Specifications:

Coverage 10 - 30000 kHz
Selectivity 14/8/3/2.4/1 kHz -6dB.
Sensitivity $<1\mu\text{V}$ 12dB S/N SSB
Image Rej >90 dB
Audio Out 1 W 4 ohms
Line Out 200 mw 600 ohms
Modes AM/USB/CW/FSK
Stability 10 Hz over entire range
IF Rejection >90 dB
Environment ... -15 to 55° C 95% humid
I.F. 46.205 & 1.4 MHz
I.F. Output 20 mV into 50 ohms

Accessories:

Cabinet 1161 Panoramic Display (see Comments)

Comments:

Memories store: Frequency, Mode, BFO, AGC, RF setting and remote antenna or pre-amp selection. Front panel utilizes membrane switches for most functions. LSB reception via BFO only.

Variants: Model 1650/2 also includes LSB and a .4 kHz filter. Model 1650/3 also includes LSB and ISB and looks like the 1650/10.

Made In: England 1982-1997

Voltages: 100/150 & 220/260 VAC
40-60 Hz and 24VDC

Readout: 00000.005 Digital LED

Physical: Cabinet Version:
19.75x6.5x20.8" 51 Lbs.
502x164x528mm 23 kg
Rack Version:
19x5.25x20.8" 42 Lbs.
483x133x528mm 19 kg

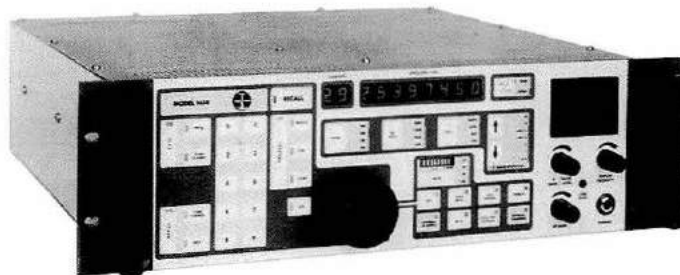
Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



1650/9



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- Line Out Jack
- Scan & Sweep
- BFO ± 3.9 kHz
- Speaker
- Ext. Spkr Jack
- IF Out 1.4 MHz
- Dimmer
- 99 Memories
- RS232C/422A
- Rack Handles
- Self Diagnostics
- Keypad
- Atten. -10/20/40 dB
- AGC OFF/FST/SLO/AUD
- Ant. Switch (4 pos).
- Membrane front.
- Ext Ref. Input

Specifications:

Coverage 10 - 30000 kHz
Selectivity 16/8/3/2.4/1/3 kHz -6dB.
Sensitivity $<1\mu\text{V}$ 12dB S/N SSB
Image Rej >100 dB
Audio Out 1 W 4/8 ohms
Line Out 200 mw 600 ohms
Antenna Input 50 ohms
Modes AM/USB/CW/CW
Stability 10 Hz over entire range
IF Rejection >100 dB
Environment ... -15 to +55° C 95% humid
I.F. 46.205 & 1.4 MHz
I.F. Output 20 mV into 50 ohms

Accessories:

Cabinet 1529 FSK Unit 1855 Diversity Switch

Comments: Memories store: Freq., Mode, BFO, AGC, RF setting, and remote antenna or pre-amp selection. Options: /A with motor driven RF preselector, /S with external standard input 1/5 MHz, /N with NBFM reception, /K with FSK reception. All options are available together (apart from NBFM and FSK).

Variants: Model 1650/9H features 1.6 MHz High pass filter. Model 1650/9AH features 14 range sub-octave preselector.

Made In: England 1992-1997

Voltages: 100/150 & 200/260 VAC
40-60 Hz and 24VDC

Readout: 00000.005 Digital LED

Physical: Cabinet Version:
19.75x6.5x20.8" 51 Lbs.
502x164x528mm 23 kg
Rack Version:
19x5.25x20.8" 42 Lbs.
483x133x528mm 19 kg

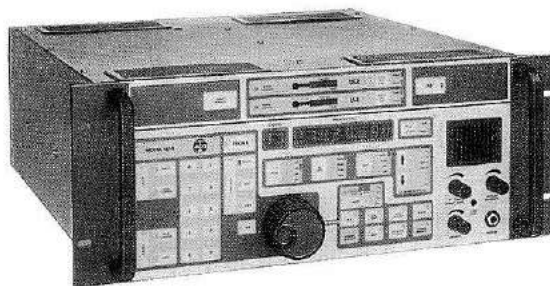
Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



1650/10



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- Line Out Jack
- Scan & Sweep
- Speaker Switch
- I.S.B.
- Speaker
- Ext. Spkr Jack
- IF Out 1.4 MHz
- Dimmer
- 99 Memories
- RS232C/422A
- Rack Handles
- Self Diagnostics
- Keypad
- Atten. -10/20/40dB
- AGC OFF/FST/SLO/AUD
- Ant. Switch (4 pos).
- Membrane front.
- Ext Ref. Input

Specifications:

Coverage 10 - 30000 kHz Modes AM/LSB/USB/CW/ISB
Selectivity 16/8/3/2.4/1/3 kHz -6dB. Stability ± 1 PPM
Sensitivity -113 dBm 1 kHz CW 118dB IF Rejection 100 dB
I.F. 46.205 & 1.4 MHz Environment ... -15 to 55° C 95% humid
Audio Out 1 W 4 ohms I.F. Output 20 mV into 50 ohms
Line Out 200 mw 600 ohms

Accessories:

Cabinet 1161 Panoramic Display 1775 Remote Control Unit

Comments: Memories store: Freq., Mode, BFO, AGC, RF setting and remote antenna or pre-amp selection. Options: /A with motor driven multi-range RF preselector, /S with external standard input 1 or 5 MHz, /N with NBFM reception, /E with FSK reception, /F with panoramic output. All options are available together except the NBFM and FSK options.

Variants: Model 1650/8 is the VLF version covering 10 to 160 kHz \$8650

Made In: England 1989-1997

Voltages: 100/150 & 220/260 VAC
40-60 Hz or 24 VDC

Readout: **00000.005** Digital LED

Physical: Cabinet Version
19.75x8.25x21.4" 61 Lbs
502x209x543mm 28 kg
Rack Version
19x8.25x21.4" 52 Lbs
483x209x555mm 24 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	\$11000	⑤
Rating:	⑤	⑥



1680/3



Fixed Channel Communications Receiver
Single Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- Mute Line
- Rack Handles
- BFO ± 3 kHz
- AGC (2 Pos.)
- RF Gain
- Atten. (3 Pos.)
- Speaker
- Remote Operation

Specifications:

Coverage 1 Ch. 1600- 30000 kHz Modes AM/USB
Selectivity 7/2.7 kHz -6dB. Stability 20 Hz 0° - 40° C.
Sensitivity 1 μ V for 12 dB SINAD IF Rejection > 90 dB
Image Rej 70 dB <20 MHz I.F. 1.4 MHz
Audio Out 2 W 8 ohms Environment ... -10 to 55° C 95% humid
Line Out 600 ohms

Accessories:

LSB Mode CW Mode

Comments:

Designed for rack mounting and commercial applications.

Variants:

Model 1680/4 is the same as above but with 2 channels. Model 1680/1 is fixed at 500 kHz, Model 1680/2 covers 7 channels in the range of 400 to 535 kHz. Variants have slightly different performance specifications.

Made In: England 1985-1989

Voltages: 100/130 & 220/250 VAC
40-60 Hz 25W or 24 VDC

Readout: **No Display**

Physical: 19x3.5x11" 14 Lbs
483x88x282mm 6.5 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑤	⑥



1830/1

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- IF Gain
- Dial Light
- IF Out 100 kHz
- S-Meter
- Rack Handles
- Standby
- NL
- Speaker
- Mute Line
- BFO ± 5 kHz
- 10 Crystal Positions
- Line Out
- AGC MAN/SLO/FST

Specifications:

Coverage 120 - 31000 kHz
Selectivity 8/3/1.3 kHz -6dB.
Sensitivity <3 μ V 1.6-30 MHz AM
Audio Out5 W 3 ohms 5% dist.
Environment .. -15° to 55° C.
I.F. 1300-1400, 100 kHz
Antenna Input BNC 75 ohm unbal.

Modes AM/LSB/USB/CW
Stability 1 part in 10^4 ° C.
IF Rejection >85 dB 2.9-31 MHz
IF Rejection >60 dB .12-2.9 MHz
Image Rej >70 dB 1.5-18 MHz
Image Rej >50 dB 18-31 MHz

Accessories:

961A Panoramic Display


Comments:

The 1830/1 replaced the 830/7 tube receiver.

Variants: Model 1830/2 has 50 crystal positions and a deeper front panel. Model 1830/5 has a special SSB filter. Model 1830/7 has a special SSB filter and 50 crystal positions. Model 1830/3 has a gap in coverage from 535-920 kHz. Model 1830/4 has a revised circuit. Model 1830/6 has 535-920 kHz gap and special SSB filter. Model 1830/8 is the same as 1830/6 but with 50 crystal positions.

Made In: England 1971-1974

Voltages: 100/130 or 200/260 VAC
40-60 Hz or 12 VDC

Readout:  Analog

Physical: Cabinet Version:
19.75x6.5x14.8" 40 Lbs
502x164x376mm 18.1 kg
Rack Version:
19x5.25x13.125" 40 Lbs.
483x133x344mm 8.2 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

Reviews: WRTN 1976

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



1837/1

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- IF Gain
- Atten. -20/40 dB
- Dimmer
- S-Meter
- Rack Handles
- BFO
- Line Out
- Speaker
- Mute Line
- IF Output
- Speaker Out
- AGC OFF/LNG/SHT
- Fine Tuning ± 10 kHz.
- High Stability Lock

Specifications:

Coverage 100 - 31000 kHz
Selectivity 8/3/2.4/1.3/.4 kHz -6dB
Sensitivity <1 μ V -15 dB S/N CW
Audio Out5 W 3 ohm 5% dist.
I.F. 1340-1360, 100 kHz
Radiation <400pW
Environment .. -15 to +50° C 95% humid

Modes AM/CW/MCW/USB
Stability 1 part in 10^4 ° C
IF Rejection 60 dB .1-2.9 MHz
IF Rejection 85 dB 2.9-30 MHz
Image Rej 50-40 dB (.5-30 MHz)
Antenna Input . 50/75 ohm unbal.

Accessories:

Cabinet 1061 Panoramic Unit 12/24 VDC PS

Comments:

Intended for maritime applications. Designed for 19" rack mounting. Single conversion 840-1600 kHz. The Lock button puts the receiver into a high stability mode and locks the received frequency.

Variants:

Model 1837/1B has fine tuning ± 5 kHz. The **Marconi "Pacific"** is a version of the 1837/1S.

Made In: England 1977-1979

Voltages: 100/130 200/260 VAC
40-60 Hz

Readout: **00000.1** Digital LED

Physical: Cabinet Version:
19.75x6.5x14.8" 48 Lbs
502x164x376mm 21.8 kg
Rack Version:
19x5.25x13.125" 37 Lbs.
483x133x334mm 16.8 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



1837/2

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/FSK-Meter
- Speaker
- AGC OFF/LNG/SHT
- IF Gain
- Rack Handles
- Mute Line
- Fine Tuning ± 10 kHz.
- Atten. -20/40 dB
- BFO
- IF Output
- High Stability Lock
- Dimmer
- Line Out 600 ohm
- Speaker Out

Specifications:

Coverage 100 - 31000 kHz Modes AM/CW/MCW/LSB/USB
Selectivity 8/3/2.4/1.3/4 kHz -6dB Stability 1 part in 10^4 per $^{\circ}\text{C}$
Sensitivity $< .5 \mu\text{V}$ -15 dB S/N CW IF Rejection 60 dB .1-2.9 MHz
Audio Out5 W 3 ohm 5% dist. IF Rejection 85 dB 2.9-30 MHz
I.F. 1340-1360, 100 kHz Image Rej 50-40 dB (.5-30 MHz)
Radiation $< 400\text{pW}$ Antenna Input . 75 ohm unbal
Environment .. -15 to $+50^{\circ}\text{C}$ 95% humid

Accessories:

Cabinet EP1061 Panoramic Display 12/24 VDC PS

FSK Option

Comments:

Designed for 19" rack mounting. Single conversion 840-1600 kHz. The Lock button puts the receiver into a high stability mode and locks the received frequency. Unlike the 1837/1, the 1837/2 has provisions for the separate selection of LSB and USB rather than just USB.

Made In: England 1978-1983

Voltages: 100/130 200/260 VAC
40-60 Hz

Readout: **00000.1** Digital LED

Physical: Cabinet Version
19.75x6.5x14.8" 48 Lbs
502x164x376mm 21.8 kg
Rack Version
19x5.25x13.125" 37 Lbs.
483x133x334mm 16.8 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



1838/3

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/FSK-Meter
- Speaker
- Attenuator -20 dB
- IF Gain
- Rack Handles
- Mute Line
- Fine Tuning ± 10 kHz.
- AGC OFF/ON
- BFO
- IF Output
- High Stability Lock
- Line Out

Specifications:

Coverage 100 - 30000 kHz Modes AM/CW/SSB
Selectivity 8/3/2.4/1.3/4 kHz -6dB Stability 1 part in 10^4 per $^{\circ}\text{C}$
Sensitivity $< .5 \mu\text{V}$ -15 dB S/N CW IF Rejection 60 dB .1-2.9 MHz
Audio Out5 W 3 ohm 5% dist. IF Rejection 85 dB 2.9-30 MHz
I.F. 1340-1360, 100 kHz Image Rej 50-70 dB (.5-30 MHz)
Radiation $< 400\text{pW}$ Antenna Input . 75 ohm unbal
Environment .. -15 to 50°C 95% humid

Accessories:

Cabinet (shown) EP1061 Panoramic Display 12/24 VDC PS

Comments:

Designed for 19" rack mounting. Single conversion 840-1600 kHz. The Lock button puts the receiver into a high stability mode and locks the received frequency.

Variants:

Model 1838/2 covers only 1.6-30 MHz. Model 1838/1 covers only 1.6-30 MHz and offers CW as an option.

Made In: England 1976-1977

Voltages: 100/130 200/260 VAC
40-60 Hz

Readout: **00000.1** Digital LED

Physical: Cabinet Version:
19.75x7.5x14.8" 48 Lbs
502x191x376mm 21.8 kg
Rack Version:
19x5.25x13.125" 37 Lbs.
483x159x334mm 16.8 kg

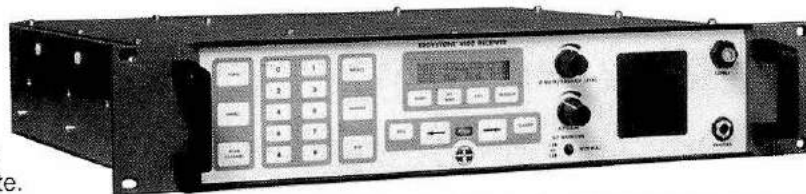
Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



6100/1



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- Line Out Jack
- AGC (4 Pos.)
- Speaker
- Ext. Spkr Jack
- Squelch
- 99 Memories
- Keypad
- Rack Handles
- Membrane front.
- Atten. -10 dB
- BFO ± 2.4 kHz
- B.I.T.E.
- Scan & Sweep

Specifications:

Coverage 1600 - 30000 kHz
Selectivity 6/2.4/=/3-2.7 kHz -6dB.
Sensitivity <.4 μ V 10dB S/N CW
Image Rej >100 dB 1st
Audio Out 1 W 4/8 ohms
Line Out 200 mw 600 ohms

Modes AM/USB/LSB/CW
Stability 10 Hz over entire range
IF Rejection >100 dB
Environment ... -15 to +55° C 95% humid
I.F. 45 & 1.4 MHz
Antenna Input . BNC 50 ohm

Accessories (Options):

/A adds 10-1600 kHz coverage and preselector, /B adds external preselector drive option, /F adds 10-1600 kHz coverage, /K adds internal FSK, /S adds Ext. Standard Input, /X adds high stability. 6800 Remote Control Unit

Comments:

Memories store: Frequency, Mode, Bandwidth, BFO, AGC and Claifier setting. Front panel utilizes membrane switches for most functions. Model 6100/1 has parallel remote control only.

Variants: Model 6100/2 has 50 memories with full serial remote control. Model 6100/3 has ISB, full serial remote control and 50 memories.

Made In: England 1991-1997

Voltages: 100/150 & 200/260 VAC
40-60 Hz and 24 VDC

Readout: **00000.01** Digital LCD

Physical: 19x3x17" 26.5 Lbs.
483x88x440mm 12 kg

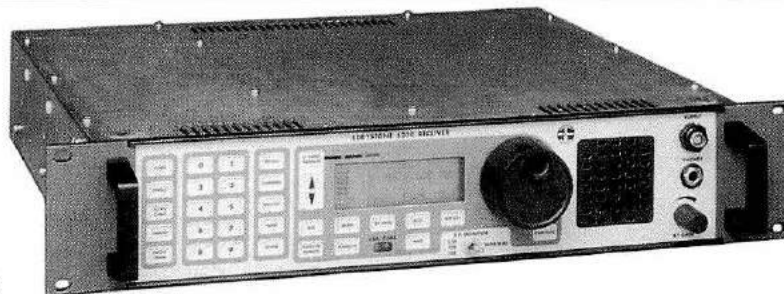
Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	\$6500	⑤
Rating:	⑥	⑥



6200/1



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State

Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- Line Out Jack
- Dimmer
- AGC (4 Pos.)
- Speaker
- Ext. Spkr Jack
- Squelch
- Keypad
- 99 Memories
- RS232C/422A
- Rack Handles
- Membrane front.
- Atten. -10 dB
- BFO ± 2.4 kHz
- B.I.T.E.
- Scan & Sweep

Specifications:

Coverage 1600 - 30000 kHz
Selectivity 14/8/3/2.4/1/4 kHz -6dB.
Sensitivity <1 μ V 12dB S/N SSB
Image Rej >100 dB 1st
Audio Out 1 W 4/8 ohms
Line Out 200 mw 600 ohms
Antenna Input BNC 50 ohm

Modes AM/USB/CW
Stability 10 Hz over entire range
IF Rejection >100 dB
Environment ... -15 to +55° C 95% humid
I.F. 45 & 1.4 MHz
I.F. Output 20 mV into 50 ohms

Accessories (Options):

/A adds 100-1600 kHz coverage, /B adds 8 bit data out for antenna control, /C adds filters, /F adds wideband input, /I adds IF Output, /K adds internal FSK, /P adds panoramic output jack, /S adds Ext. Standard Input, /T adds clock, /X adds high stability. 6850 Remote Control Unit.

Comments: Memories store: Frequency, Mode, Bandwidth, BFO, AGC and RF setting. Front panel utilizes membrane switches for most functions.

Variants: Model 6200/2 also includes LSB. Model 6200/3 includes LSB and ISB.

Made In: England 1994-1997

Voltages: 100/130 & 200/260 VAC
40-60 Hz and 19-32 VDC

Readout: **00000.01** Digital LCD

Physical: 19x3.5x17.3" 26 Lbs.
483x88x440mm 12 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



EA12

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 17 Tubes.

Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- Standby
- S-Meter
- IF Gain
- Twin NL
- Panoramic Output
- Calibrator
- Slot Filter
- FSK Output
- AGC (2 Pos.)
- Rack Handles
- 140:1 Tune Ratio

Specifications:

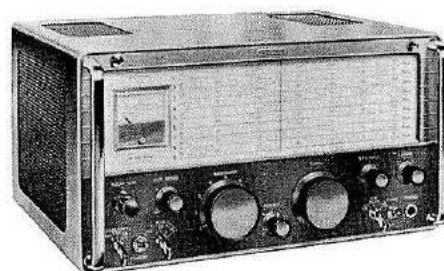
Coverage Ham. See Comments. Modes AM/SSB/CW/MCW
 Selectivity Variable to .5 kHz -6dB. Stability 20 Hz short term
 Sensitivity <.5µV 20 dB S/N CW Antenna Input .

Accessories:

FSK Adapter

Comments:

Supplied coverage: 160 to 10 meters. Output jacks for FSK and panoramic adaptor. Slow-motion drive (140 to 1 ratio). This is believed to be the last valve (tube) receiver that Eddystone manufactured. It replaced the model 888A.



Made In: England 1964-1969

Voltages:

Readout:  Analog Lin.

Status: Inactive Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	\$500	⑤
Rating:	⑥	⑥



EB-35

General Coverage Broadcast Receiver

Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- Tone
- Phono Input Jack
- Speaker 5"
- Dial Light
- 110:1 Tune Ratio
- Record-out Jack
- Aux. Tuning Scale
- Rack Handles

Specifications:

Coverage 550-22000 kHz +LW/FM Modes AM/[FM-W]
 Selectivity 5 kHz [250 FM] -6dB. Image Reject .. 50 dB @2 MHz
 Audio Out 750 W 10% distortion Image Reject .. 15 dB @18 MHz
 Sensitivity <5 µV -15 dB S/N 3.5-22MHz Antenna Input . Terminals (Jack for FM)

Accessories:

924 AC Power Supply 945 12/24VDC Power Supply

Comments:

Ranges: 8.5-22, 3.5-8.5, 1.5-3.5, .55-1.5, .15-.35 MHz plus FM broadcast coverage from 88-108 MHz. FM mode reception is only on the FM broadcast band. Longwave coverage is 150-350 kHz. The flywheel-loaded 110 to 1 reduction drive provides very smooth tuning.


Variants:

Model **EB-35 Mark I** has an extra IF amp stage. Model **EB-35 Mark II** has a slightly different case 1969-1970. Model **EB-35 Mark IIS** has stereo FM. Model **EB-35A** covers 155-175 VHF marine instead of FM broadcast. Model **EB-36** was the same as the EB-35, but without the FM band 1966-1969.



Made In: England 1965-1969

Voltages: Batteries 6 x D cells

Readout:  Analog

Physical: 12.5x6.3x8" 13 Lbs.
317x162x203mm 5.8 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

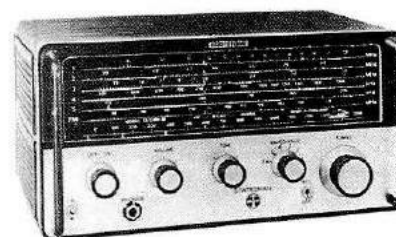
	New	Used
Price:	\$160	⑤
Rating:	⑥	⑥



EB-35 Mark III The Statesman

General Coverage Broadcast Receiver

Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Speaker 5"
- 110:1 Tune Ratio
- Aux. Tuning Scale
- Tone
- Dial Light
- Record Jack
- Rack Handles
- AFC
- Phono Input Jack

Specifications:

Coverage 550-22000 kHz +LW/FM Modes AM/[FM-W]

Selectivity 5 kHz [250 FM] -6dB.

Audio Out 750 W 8 ohm 10% dist. Antenna Input . Terminals (Jack for FM)

Sensitivity <5 μ V -15 dB S/N 3.5-22MHz

Accessories:

924A AC Power Supply

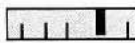
945A 12/24VDC Power Supply

Comments:

The flywheel-loaded 110 to 1 reduction drive provides very smooth tuning. Ranges: 8.5-22, 3.5-8.5, 1.5-3.5, .55-1.5 and .15-.35 MHz plus FM coverage from 88-108 MHz. FM mode reception is only on the FM broadcast band. Longwave coverage is 150-350 kHz. Very similar to the EB-35 Mark II, but with an AFC switch.

Made In: England 1976

Voltages: Batteries 6 x D cells

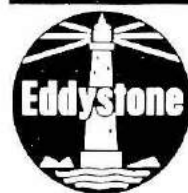
Readout:  Analog

Physical: 12.5x6.3x8" 11 Lbs.
317x162x203mm 5.8 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

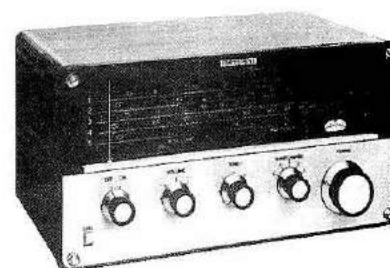
	New	Used
Price:	①	⑤
Rating:	⑤	⑥



EB-37

General Coverage Broadcast Receiver

Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Speaker 5"
- 110:1 Tune Ratio
- Aux. Tuning Scale
- Tone
- Dial Light
- Record Jack
- Rack Handles
- Phono Input Jack

Specifications:

Coverage 150 - 22000 kHz

Selectivity 5 kHz -6dB.

Audio Out 750 W 8 ohm 10% dist

Stability 1 part in 10⁴/°C

IF 465 kHz

Modes AM/FM

Image Reject .. 50 dB @ 2 MHz

Image Reject .. 15 dB @18 MHz

Sensitivity <5 μ V -15 dB S/N 1.5-22MHz

Antenna Input . Screws 75 ohm

Accessories:

924 AC Power Supply


945 12/24VDC Power Supply

Comments:

Ranges: 8.5-22, 3.5-8.5, 1.5-3.5, .55-1.5 and .15-.35 MHz. (Reception gap from 350-550 kHz). Very similar to the EB-36 (and to the EB-35, but without the FM broadcast band).

Made In: England 1971-1976

Voltages: Batteries 6 x D cells

Readout:  Analog

Physical: 12.5x6.3x8" 13 Lbs.
317x162x203mm 5.8 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



EC-10

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State



Features:

- 1/4" Head. Jack
- BFO
- CW Audio Filter
- AGC (2 Pos.)
- RF Gain
- Speaker 5"
- 110:1 Tune Ratio
- Aux. Vernier Scale
- Rack Handles
- Dial Light
- Logging Scale

Specifications:

Coverage 550 - 30000 kHz
Selectivity 5 kHz -6dB.
IF 465 kHz
Audio Out 1 W
Modes AM/CW
Sensitivity <3 μ V -15dB S/N 1.5-30MHz
Image Reject .. 50 dB @ 2 MHz
Image Reject .. 20 dB @ 18 MHz

Circuit Complement:

10 Transistors and 3 diodes.

Accessories:


924 AC Power Pack.

Comments:

Ranges: 18-30, 8.5-18, 3.5-8, 1.5-3.5 and .55-1.5 MHz. Marginal SSB reception is possible with this radio.

Made In: England 1964-1970

Voltages: Batteries 6 x D cells

Readout:  Analog

Physical: 12.5x6.3x8" 12.75 Lbs.
317x162x203mm 5.8 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	\$140-180	⑤
Rating:	⑥	⑥



EC-10 Mark II

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Record-out Jack
- Audio CW Filter
- RF Gain
- AGC (2 Pos.)
- Dial Lamp
- 110:1 Tune Ratio
- BFO
- Fine Tuning
- Mute Line
- Rack Handles
- Speaker 5"
- Logging Scale
- Dial Lamp Switch

Specifications:

Coverage 550 - 30000 kHz.
Selectivity 5 kHz -6dB.
Audio Out8 W 3 ohms 10% dist.
Inter. Freq. 465 kHz.
Modes AM/SSB/CW
Sensitivity <5 μ V 15dB S/N >1.5 MHz.
Stability 1 part in 10⁴/°C.
Image Reject .. 50 dB@2, 20 dB@18 MHz

Accessories:

924 AC Power Supply 945 12/24 VDC PS

Comments:

The EC-10 MK.II is a restyled replacement of the EC-10 incorporating a number of additional features. These include an S-Meter, Fine Tuning Control and desensitizing facilities. An audio CW filter yields a bandwidth of 180 Hz @6 dB. The internal battery pack can be fitted with an AC power unit for operation from 100/125, 200/250 VAC 40-60 Hz, or external 12VDC or 24 VDC supplies. Ranges: 18-30, 8.5-18, 3.5-8, 1.5-3.5 and .55-1.5 MHz. The model EC-10A/2, shown below, is the same but with 2182 kHz preset facility.

Variants:

This model was also sold as the MIMCO 6689.

Made In: England 1969-1975

Voltages: 6 D Cells (internal pack).
See comments.

Readout:  Analog

Physical: 12.5x6.3x8" 14 Lbs.
320x162x203mm 6.3 kg

Status: Active Manufacturer
Discontinued Model

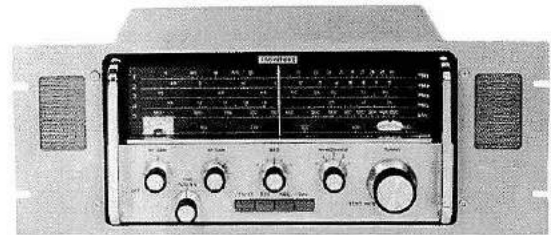
Rarity: Very Scarce

	New	Used
Price:	\$200-210	⑤
Rating:	⑥	⑥



EC-10A/2/RM

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Line Out Jack
- Audio CW Filter
- RF Gain
- AGC (2 Pos.)
- Dial Lamp
- 110:1 Tune Ratio
- BFO
- Fine Tuning
- Rack Handles

Specifications:

Coverage 1500 - 30000 kHz.+LW Modes AM/SSB/CW
Selectivity 7 kHz -6dB. Sensitivity <5µV 15dB S/N >1.5 MHz.
Audio Out8 W 10% distortion Stability 1 part in 10⁴/°C.
Inter. Freq. 720 kHz.

Comments:

The EC-10A series comprises four variants of the basic EC10 which have been tailored for maritime use. These receivers cover longwave 300 - 550 kHz instead of 550 - 1500 kHz.

Variants:

The **EC-10A/2** variants include crystal controlled receptions of 2182 kHz (international HF distress frequency). EC10A/2/RM (shown) is rack mount version with two panel speakers (one for the radio and one for the ship's intercom). The model **EC10A/2/RM/S** is the same but less internal speaker and ship's intercom speaker.

Made In: England 1976-1978

Voltages: 12 or 24 VDC

Readout:  Analog

Physical: 19x7x8" 16.25 Lbs.
482x177x203mm 7.4 kg

Status: Active Manufacturer
Discontinued Model

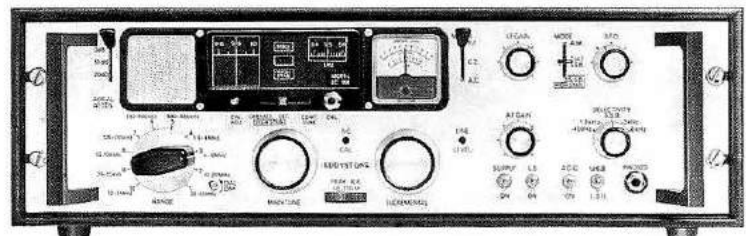
Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



EC-958

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF/FSK Meter
- Line Out Jack
- Attenuator -10/20 dB
- RF Gain
- Dial Lamp
- Speaker Jack
- AGC ON/OFF
- BFO ± 5kHz
- Rack Handles
- Mute Line
- IF Out Jack
- Speaker

Specifications:

Coverage 10 - 30000 kHz Modes AM/SSB/CW
Selectivity 8/3/2.65/1.3/.4kHz -6dB. IF 1235-1335, 250, 100 kHz.
Sensitivity <1µV 10 dB S/N CW Image Rej. >70 dB over 18 MHz
Audio Out 1 W 3 ohm 5% Dist. Stability 20 Hz after warm-up
Environment .. 0 to +50° C Antenna Input . BNC and Terminals

Accessories:

EP961 Panoramic Display EP1061A/1 Panoramic Display

Comments: Ranges: 20-30, 10-20, 4-10, 1.6-4, .68-1.65, .29-.68, .125-.295, .53-.126, .023-.054 and .010-.023 MHz. Certainly one of the best receivers ever made by Eddystone. Outstanding on longwave and VLF.

Variants: Model **EC958/1** fitted with special filter for SSB, carrier controlled AGC and beat meter. Model **EC958/2** is for specialized network monitoring and includes a 150 Hz CW bandwidth in lieu of SSB reception. Model **EC958/3** is like the /2 with additional 10 kHz scale check from 10 to 680 kHz. Model **EC958/4** is a military variant. Model **EC958/5** is a maritime variant. This **EC958/D** version was produced for Debeg and sold as the **Debeg E755**. Model **958/H** was sold by Hagenuk.

Made In: England 1969-1973

Voltages: 100/130/200/260 VAC
40-60 Hz

Readout:  Analog Lin.

Physical: Cabinet Version:
19.75x6.5x18" 50 Lbs.
502x165x457mm 22.7 kg
Rack Version:
19x5.25x16.2" 43.5 Lbs.
483x133x411mm 19.6 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Extremely Scarce

	New	Used
Price:	\$2950	\$800-1100
Rating:	⑥	⑥



EC-958/7E

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- BFO \pm 5kHz
- Speaker
- S/AF/FSK Meter
- AGC ON/OFF
- Rack Handles
- Speaker Jack
- Line Out Jack
- Dial Lamp
- Mute Line
- Attenuator -10/20 dB
- Line Out 600 ohms
- IF Out Jack

Specifications:

Coverage 10 - 30000 kHz
Selectivity 8/3/2.4/1.3/4kHz -6dB.
Sensitivity <1 μ V 20 dB SINAD CW
Audio Out 1 W 3 ohm 5% Dist.
Environment... 0 to +50° C

Modes AM/SSB/CW
IF 1235-1335, 250, 100 kHz.
Image Rej. >60 dB over 18 MHz
Stability 20 Hz after warm-up
Antenna Input . BNC and Terminals

Accessories:

989 Speaker

Comments:

Ranges: 20-30, 10-20, 4-10, 1.6-4, .68-1.65, .29-.68, .125-.295, .53-.126, .023-.054 and .010-.023 MHz. Similar to the EC-958, but with digital LED readout.

Variant:

Model EC-958/7 differences unknown.

Made In: England 1973-1980

Voltages: 100/130/200/260 VAC
40-60 Hz

Readout: **00000.001** Digital LED

Physical: Cabinet Version:
19.75x6.5x18" 50 Lbs.
502x165x457mm 22.7 kg
Rack Version:
19x5.25x16.2" 43.5 Lbs.
483x133x411mm 19.6 kg

Status: Active Manufacturer
Discontinued Model

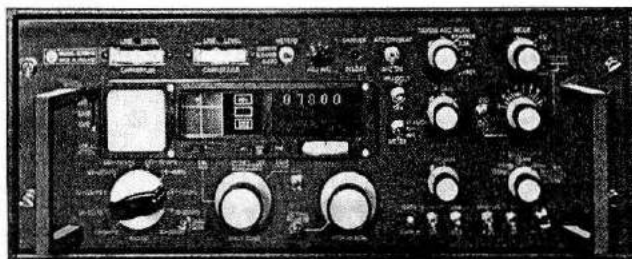
Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



EC-958/12

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- BFO \pm 5kHz
- Speaker
- S/AF Meters
- AGC ON/OFF
- Rack Handles
- Speaker Jack
- Line Out Jack
- Dial Lamp
- Mute Line
- (2) Line Out 600 ohms
- Diversity AGC Out
- Attenuator -10/20 dB
- IF Out Jack

Specifications:

Coverage 10 - 30000 kHz
Selectivity 8/3/2.4/1.3/4 kHz -6dB.
Sensitivity <1 μ V 10 dB S/N CW
Audio Out 0.5 W 3 ohm 5% Dist.
IF Reject >100 dB 3-30 MHz.
Environment... -15 to +55° C

Modes AM/SSB/CW/ISB
IF 1235-1335, 250, 100 kHz.
Image Rej. >60 dB over 18 MHz
Stability 20 Hz after warm-up
Antenna Input . BNC and Terminals

Accessories:

989 Speaker LP3058 FSK Module

Comments:

Similar to the EC-958/7, but with ISB capability. Note the two meters mounted above the speaker. They can display Carrier, Side Bands or Audio for each of two independent sidebands. Two independent 600 ohm (10mW) line out jacks are provided.

Made In: England 1974-1981

Voltages: 100/130/200/260 VAC
40-60 Hz 90W

Readout: **00000.001** Digital

Physical: Cabinet Version:
19.75x8x18" 72 Lbs.
502x203x457mm 32.6 kg
Rack Version:
19x7x16.2" 60 Lbs.
483x177x411mm 27.2 kg

Status: Active Manufacturer
Discontinued Model

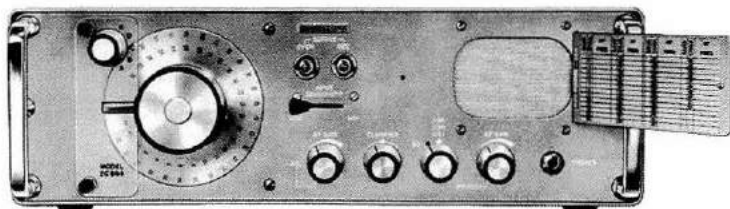
Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



EC-964/1

Fixed Channel Communications Receiver
Dual Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Mute Line
- Rack Handles
- BFO ± 3 kHz
- Atten (2 Pos.)
- RF Gain
- Speaker
- 52 Channels
- Modular Construction

Specifications:

Coverage 52 Ch. 1600-27500 kHz Modes AM/USB/CW
Selectivity 6/2.4 kHz -6dB. Stability 20 Hz 0° - 40° C.
Sensitivity 1 μ V for 12 dB S/N IF Rejection > 80 dB Below 4 MHz
Image Rej 60 dB <15 MHz IF Rejection > 90 dB Above 4 MHz
Audio Out 2 W 8 ohms IF 1.2 MHz, 100 kHz
Line Out 600 ohms

Comments:

Designed for the marine market.

Accessories:

978/12 12VDC PS 978/24 24VDC PS

Variants:

Model **EC-964/3** covers 28 channels in the range of 1.6 - 4.5 MHz.

Made In: England 1969-1970

Voltages: 100/125 & 200/250 VAC
40-60 Hz 45W

Readout: **[Channel]** Channel

Physical: Cabinet Version:
16.75x5.25x17.375" 33 Lbs
426x134x441mm 15.2 kg
Rack Mount Version:
19x5.25x17.375" 33 Lbs
483x134x441mm 15.2 kg

Status: Active Manufacturer
Inactive Model

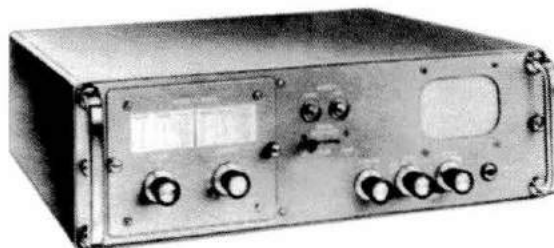
Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



EC-964/4

Fixed Channel Communications Receiver
Dual Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Mute Line
- Rack Handles
- BFO ± 3 kHz
- Atten. (2 Pos.)
- RF Gain
- Speaker
- 12 Channels
- Modular Construction

Specifications:

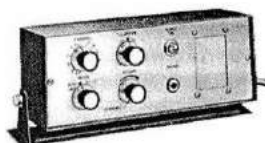
Coverage 12 Ch. 1600-30000 kHz Modes AM/USB/CW
Selectivity 6/2.4 kHz -6dB. Stability 20 Hz 0° - 40° C.
Sensitivity 1 μ V for 12 dB S/N IF Rejection > 80 dB Below 4 MHz
Image Rej 60 dB <15 MHz IF Rejection > 90 dB Above 4 MHz
Audio Out 2 W 8 ohms IF 1.2 MHz, 100 kHz
Line Out 600 ohms

Comments:

Designed for the marine market. Note that the 12 channel EC-964/4 will operate from AC or 24 VDC as standard.

Accessories:

ERC974/1 Remote Controller (shown right)



Variants:

Model **EC-964/5** covers 28 channels in the 1.6-4.5 MHz range.

Made In: England

Voltages: 100/125 & 200/250 VAC
40-60 Hz 45W or 24VDC

Readout: **[Channel]** Channel

Physical: Cabinet Version:
16.75x5.25x17.375" 33 Lbs
426x134x441mm 15.2 kg
Rack Mount Version:
19x5.25x17.375" 33 Lbs
483x134x441mm 15.2 kg

Status: Active Manufacturer
Inactive Model

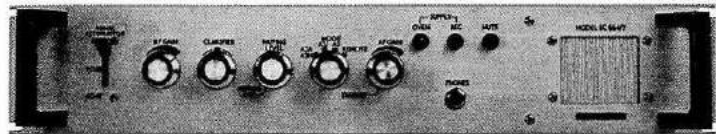
Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



EC-964/7A

Fixed Channel Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Standby
- Rack Handles
- BFO ± 300 Hz
- Speaker
- Muting
- RF Gain
- Single Channel
- Atten. -20/40 dB

Specifications:

Coverage 1 Chan. See Comments
Selectivity Depends on version.
Sensitivity 1 μ V for 15 dB S/N SSB
Image Rej 70 dB <18 MHz
Audio Out 1 W 8 ohms
Line Out 600 ohms

Modes SSB (A3J)
Stability 10 Hz -10° to +55° C.
IF Rejection > 80 dB Below 2 MHz
IF Rejection >100 dB Above 2 MHz
IF 1400 kHz
Antenna Input . 50 ohm

Comments:

Single channel operation in the range .4-.535 or 1.6-27.5 MHz.

Variants:

Model **EC964/7B** is SSB (A3J/A3A). Model **EC964/7C** is SSB (A3J/A3A) and AM.
Model **EC964/7D** is MCW.

Made In: England 1973-1975

Voltages: 100/130 & 200/260 VAC
40-60 Hz 25W

Readout: [REDACTED] None

Physical: 19x3.5x8.5" 17 Lbs
483x88x216mm 7.7 kg

Status: Active Manufacturer
Inactive Model

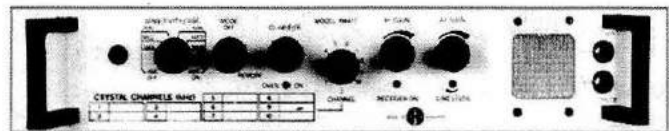
Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



EC-1964/1

Fixed Channel Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Rack Handles
- Muting
- BFO ± 300 Hz
- Standby
- Speaker
- RF Gain
- Ten Channel
- Atten. -20/40 dB

Specifications:

Coverage 10 Ch. See Comments
Selectivity 7/2.7 kHz.
Sensitivity 1 μ V for 15 dB S/N SSB
IF Rejection ... >100 dB
Audio Out 1 W 8 ohms
Line Out 600 ohms

Modes AM/SSB/CW
Stability 10 Hz -10° to +55° C.
Image Reject .. See Comments
IF 400 kHz, 100 kHz
Antenna Input . 50 ohm

Comments:

Ten channel operation in the range 1.6-20 MHz. Image rejection: 70 dB <9 MHz, 60 dB <15 MHz, 50 dB < 20 MHz and 40 dB <27.5 MHz.

Variants:

Model **EC-1964/2** covers ten channels in the range of 1.6-27.5 MHz.

Made In: England 1978-1980

Voltages: 100/130 & 200/260 VAC
40-60 Hz

Readout: [Channel] Channel

Physical: 19x3.5x16.5" 22 Lbs.
483x88x420mm 10 kg

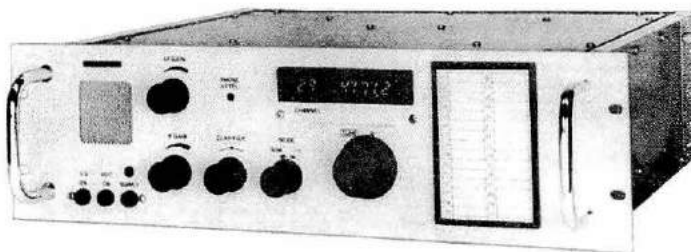
Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



S1670



Fixed Channel Communications Receiver
Dual Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- BFO ± 150 Hz
- RF Gain
- 30 Channels
- Mute Line
- AGC
- Speaker
- 2182 kHz Preset
- Rack Handles

Specifications:

Coverage 30 Ch. 1.6-4.2 MHz	Modes SSB/CW
Sensitivity 1 μ V for 20 dB S/N	Stability 50 Hz 0° - 40° C.
Image Rej >70 dB	IF Rejection >80 dB
Audio Out 2 W 8 ohms	IF 1400, 100 kHz
Line Out 600 ohms	Environment ... -10° to +55° C.

Comments:

Designed strictly for the marine market. The LED display shows the channel number and frequency to 100 Hz.

Made In: England

Voltages: 100-130 & 200-260 VAC
40-60 Hz or 24 VDC

Readout: **00000.1** Digital LED

Channel Chan. LED

Physical: Cabinet Version:
19.75x6.5x18.1" 39.5 Lbs.
502x165x460mm 17.9 kg
Rack Mount Version:
19x5.25x18.1" 28 Lbs.
483x134x460mm 12.7 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

Elta Electronics Industries Ltd. is one of Israel's leading military electronics systems companies. Elta, a wholly-owned subsidiary of Israel Aircraft Industries, was established in 1960. Located in the port city of Ashdod, Elta's modern industrial complex covers an area of 576,000 square feet. Most of Elta's 2,455 employees are experienced scientists, engineers, programmers and technicians.

Elta has five divisions: Radar Systems, Electronic Warfare Systems, Communications Systems, Information Systems and Advanced Technologies. In 1994 sales were divided between the Israel Department of Defense (29%) and export markets (71%).

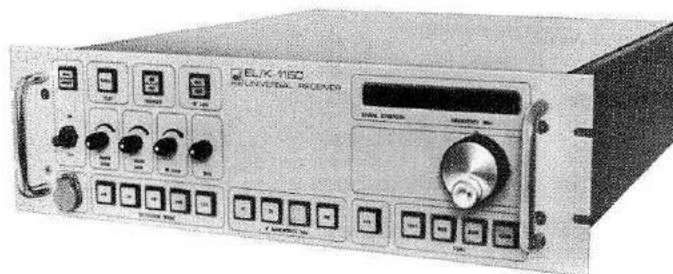
1994 Sales totaled \$271 million of which over \$200 million was for export.

Elta does not currently manufacture an H.F. receiver.

Elta Electronics Industries Ltd.
Israel Aircraft Industries Ltd.
P.O. Box 330
Ashdod 77102, Israel 1994-1996



EL/K-1160



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Indicator
- BFO
- 3 Tuning Speeds
- RF Gain
- Dial Lock
- AGC/MGC
- Squelch
- BITE
- Modular
- Rack Handles
- Line Out 600 ohms
- Spinner Knob

Specifications:

Coverage 500 - 30000 kHz	Modes AM/USB/LSB/CW/FM/ISB
Selectivity 4 Positions	Stability 6×10^{-8} /day
Sensitivity -105dBm CW 16 dB	Image Rej. >100 dB
IF Rej >100 dB	Antenna Input . 50 ohm
Audio Out 600 ohm	Environment ... -10° to +65° C.

Accessories:

Ext. Ref.

Comments:

Elta no longer makes this model, but does sell the very similar VHF/UHF version called the EL/K-1150 which covers 20 to 500 MHz. The EL/K-1150 has the same chassis, knob complement, etc.

Made In: Israel 1986-1994

Voltages: 220 VAC 50 Hz
or 24 VDC

Readout: **00000.01** Digital LED

Physical: 19x5.25x21.7"
483x133x551mm

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

The **Eska Company** has had an erratic history with a strong ability to comeback from the dead more than once.

Most of the receivers sold under the label were small, handheld crystal controlled devices (models RX12PL, RX12M and RX12S). These units provided good reception for those interested in monitoring fixed frequencies.

The Eska deluxe communications receiver was the dream of Eddy Visser. His ambitious plans for an uncompromising short-wave receiver for the hobbyist collided with economic reality. Having underestimated the cost of development, the target price of \$800 crept up to over \$3000. At this point the potential market shifted from the hobbyists to the commercial market. However, being too expensive for the listener market, and a bit too radical for the commercial market, the financial difficulties still remained. The company was acquired by Allan Eimert, the once business manager of rock star Rod Stewart. The August 1985 issue of *Monitoring Times* announced that Eska filed for bankruptcy.

Eska was not to totally leave the scene*. For many years they continued to sell circuit upgrades, filters and ECSS adapters for other receivers. Later on the Eska company emerged (note spelling). They sold an OEM version of the Sangean ATS-803A.

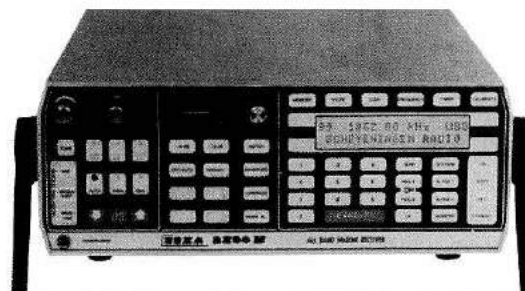
Eska Elektronik A/S
Møllestraede 5
DK-3400 Hillerød,
Denmark

1983-1985

ESKA

RX-99M

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- 99 Memories
- Timer Terminals
- S-Meter
- Squelch
- Carry Handle
- Phase Lock AM
- PBT
- Keypad
- AGC 4 Pos.
- Sleep Function
- Tone (4 Pos.)
- Ant. Gain +10/0/-15 dB
- 24 Hr. Clock/Timer
- Scan & Sweep

Specifications:

Coverage See Comments.
Selectivity 8/4/2.4 kHz -6dB.
Sensitivity <.4µV 10 dB S/N
Dyn. Range ... 95 dB
Audio Out 1.5 W

Modes AM/SSB/CW/FM/RTTY
3rd Ord. Int. +10 dBm
Image Rej >80 dB
IF 70 MHz, 10.7 MHz

Accessories:

NBFM 12 kHz Filter 6 kHz Filter
1.8 kHz Filter 1 kHz Filter .5 kHz Filter
Alpha Memory Display I.F. NB VHF/UHF Conv. (30-500 MHz)
Rack Mount Kit External Speaker External VFO

Comments:

Coverage: .04-30, 60-110 and 140-170 MHz. Memories store frequency, mode, bandwidth, antenna gain, sideband selection and AGC. All functions except, volume, PBT and (optional) audio filter, are controlled by front panel membrane switches. The RX-99M model was marketed primarily to the maritime industry. This receiver was not produced in large numbers.

Made In: Denmark 1984-1985

Voltages: 7.5 V 120 ma
6 UM2 and 2 UM2 cells,

Readout: **00000.01** Digital LCD

Physical: 10x3.5x11.2" 6.6 Lbs.
255x90x285mm 3 kg

Status: Active Manufacturer*
Inactive Model

Rarity: Virtually Unavailable

Reviews: *Passport* 1985/86
Pop. Comm. February 1985

	New	Used
Price:	\$3900	③
Rating:	⑥	⑥



RX-99PL

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- PBT
- Tone (4 Pos.)
- RF Gain
- Squelch
- Keypad
- Ant. Gain +10/0/-15 dB.
- 99 Memories
- Carry Handle
- AGC 4 Pos.
- 24 Hr. Clock/Timer
- Timer Terminals
- Phase Lock AM
- Sleep Function
- Scan & Sweep

Specifications:

Coverage 40 - 30000 kHz & FM Modes AM/SSB/CW/FM/RTTY
Selectivity 4/2.4 kHz -6dB. 3rd Ord. Int. +10 dBm
Sensitivity <.4µV 10 dB S/N Image Rej >80 dB
Dyn. Range ... 95 dB IF 70 MHz, 10.7 MHz
Audio Out 1.5 W

Accessories:

12 kHz Filter 8 kHz Filter 6 kHz Filter
1.8 kHz Filter 1 kHz Filter .5 kHz Filter
Alpha Memory Display I.F. NB VHF Conv 60-88 MHz
Rack Mount Kit External Speaker VHF Conv 140-170 MHz
VHF/UHF Conv 30-500 MHz

Comments:

Memories store frequency, mode, bandwidth, antenna gain, sideband selection and AGC. All functions except, volume, PBT and (optional) audio filter, are controlled by front panel membrane switches. This receiver was not produced in large numbers.

Made In: Denmark 1984-1985

Voltages: 7.5 V 120 ma
6 UM2 and 2 UM2 cells,

Readout: **00000.01** Digital LCD

Physical: 10x3.5x11.2" 4.4 Lbs
255x90x285mm 2 kg

Status: Active Manufacturer*
Inactive Model

Rarity: Virtually Unavailable

Reviews: *Passport* 1985/86
WRTH 1986

	New	Used
Price:	\$3500	③
Rating:	⑥	⑥

Galaxy Electronics was an active manufacturer of amateur radio equipment in the mid-1960s. Many low to mid price transceivers were offered to the amateur community.

The Galaxy R-530 was their only receiver geared towards the hobbyist. It offered technology and performance that was cutting-edge for the time. The R-530 provided unprecedented value and frequency coverage.

Galaxy Electronics was acquired by Hygain Electronics, who in turned combined with Telex to become Telex Hygain. Telex Hygain continues to manufacture high quality amateur antennas and rotors.

Please see *Chapter 79 Briefly Mentioned*, for Galaxy fixed receivers.

Galaxy Electronics
10 South 34th St.
Council Bluffs, IA 51501 1968

Hygain Electronics Corp.
Galaxy Electronics Subsidiary
8601 N.E. Hwy. 6
Lincoln, NE 68507

Hygain Electronics Corp.
4900 Superior St.
Lincoln, NE 68504



R-530

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- Speaker Jack
- S/AF-Meter
- BFO ± 1 kHz.
- Preselector
- VFO In/Out Jack
- Attenuator -20 dB
- Calibrator 50 kHz
- Line Out Terminal
- AGC Output Jack
- AVC SLOW/FAST
- Noise Blanker
- Detector Out Jack
- Standby

Specifications:

- Coverage 500 - 30000 kHz.
- Selectivity 2.1/ / kHz -6dB.
- Sensitivity <.1 μ V 6 dB S/N SSB
- Audio Out 1 W 10% distortion
- BFO Range ... ± 1 kHz.
- Aud. Resp. 250-3000 Hz -3 dB
- IF 41.625-42.125, 9 MHz
- Modes AM/LSB/USB
- Stability 100 Hz.
- IF Rejection >50 dB
- Dial Accuracy . ± 1 kHz.
- Intermod Dis. ... 3rd order > 50 dB
- Antenna Input . SO-239 50 ohm

Accessories:

- SPK530 Speaker
- RPA530 Rack Kit
- CL530 Clock (inside SPK530)
- FL5305 500 Hz CW Filter
- FL5306 6 kHz AM Filter
- FL53015 1.5 kHz Filter

Comments:

A general coverage receiver with a ± 1 kHz dial accuracy was exceptional at the time. Not often seen on the used market. Probably the finest piece of equipment ever produced by Galaxy. Possibly the first example of an American manufacturer using the Wadley loop design. The R-530 is a collector's item. Please also see the military version of this receiver called the model R-1530 on the following page.

Made In: United States 1967-1973
Voltages: 115/230 AC 50/60 Hz
24 W or 18 VDC .6 A

Readout:  Analog Lin.

Physical: Cabinet Version:
17x6x14" 25 Lbs.
431x152x355mm 11.3 kg
Rack Version:
19x8.75x14" 25 Lbs
483x222x355mm 11.3 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Very Scarce

Reviews: CQ Feb. 1969

QST May 1969

Ham Radio April 1968

	New	Used
Price:	\$695-895	\$450-750
Rating:	★★★★★	★★★★

R-1530



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- Speaker Jack
- VFO In Jack
- S/AF-Meter
- BFO ± 1 kHz.
- Preselector
- VFO Out Jack
- Attenuator -20 dB
- Noise Blanker
- Line Out Terminal
- AGC Output Jack
- AVC FST/SLO/OFF
- Calibrator 50 kHz
- Standby
- Detector Out Jack

Specifications:

Coverage 10 - 30000 kHz.	Modes AM/LSB/USB
Selectivity 2.1/1.8/_ kHz -6dB.	Stability 100 Hz.
Sensitivity <.25 μ V 6 dB SSB w/Pre	IF Rejection 50 dB
Audio Out 1 W 10% distortion	Dial Accuracy . ± 1 kHz.
BFO Range ... ± 1 kHz.	Intermod Dis. ... 3rd order > 50 dB
Aud. Resp. 250-3000 Hz -3 dB	Antenna Input . SO-239 and Terminals
IF 41.625-42.125, 9 MHz	

Circuit Complement:

Permeability tuned, phase lock oscillator, dual gate MOSFET RF amp and preselector, hot carrier diodes in first mixer, J-FET second mixer.

Accessories:

SC530 Speaker CL530 Clock (inside SPK530) FL5306 6 kHz AM Filter
 RPA530 Rack Kit FL5305 500 Hz CW Filter FL53015 1.5 kHz Filter

Comments: This is the military version of the R-530. Hygain had purchased Galaxy by this time and the R-1530 was labeled and sold as the Hygain/Galaxy R-1530.

Made In: United States 1967-1975

Voltages: 115/230 AC 50/60 Hz
24 W or 18 VDC .6 A

Readout:  Analog Lin.

Physical: Cabinet Version:
17x6x14" 25 Lbs.
431x152x355mm 11.3 kg
Rack Version:
19x8.75x14"
483x222x356mm

Status: Inactive Manufacturer
Discontinued Model

Rarity: Extremely Scarce

Reviews: WRTH 1976

	New	Used
Price:	①	\$470-800
Rating:	★★★★★	★★★★

24 General Dynamics

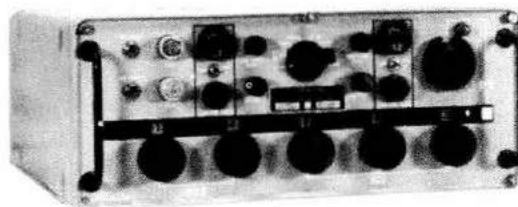
General Dynamics is a huge American defense contractor. They are far better known for their submarines than their radios.

The R-1051/URR H.F. receiver does appear from time to time at hamfests, sometimes at very modest prices. You may be able to obtain one at 1 or 2 percent of what Uncle Sam paid for his.

General Dynamics Electronics Div.
177 Admiral Cochrane Dr.
Annapolis, MD 21401

GENERAL DYNAMICS

R-1051/URR



General Coverage Communications Receiver
Triple Conversion Superheterodyne. Tubes plus Semiconductors.

Features:

- 1/4" Head Jack (2)
- AF-Meters (2)
- Fine Tuning
- Rack Handles
- RF Gain
- ISB
- AGC FST/SLO
- Modular Construction
- Line Out 600 ohms

Specifications:

Coverage 2000 - 30000 kHz	Modes AM/LSB/USB/CW/ISB/FSK
Selectivity 7/3 kHz -6dB.	Stability 1x10 ⁸ per day
Sensitivity <.6µV CW 10 dB S/N	Environment ... 0° to +50° C.
Audio Out 600/1200 ohm	Ant. Jack 50 ohm
Image Rej. 90 dB	

Comments:

The R-1051 was manufactured for the U.S. Navy and is optimized for Independent Sideband (ISB) reception. Double conversion on lower frequencies. The receiver is designed for rapid frequency change with a minimum of operator adjustments. The RF stages are tuned by a motor driven turret which operates with the MHz and 100 kHz knobs. Frequency selection is via decadic knobs. May be mounted in 19" rack or in supplied cabinet. A vernier knob is provided for tuning between 500 Hz synthesizer points. [¥95,000-120,000].

Variants:

Model **R-1051B/URR** features a 100 Hz synthesizer. Model **R-1051F/URR** was manufactured by Stewart-Warner Corporation. Model **R-1051G/URR** was later (latest?) production.

Made In: United States 1974-1981

Voltages: 115 VAC ±10%
48-450 Hz 70W

Readout:  Digital Knobs

Physical: 17.375x7x18.5" 75 Lbs.
441x177x470mm 34 kg

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	①	\$500-800
Rating:	⑥	⑧

25 Gonset

The **Gonset Radio Company** was established in 1955. They are best known for their VHF receivers and G-66 mobile amateur band receiver and matching G-77 transmitter.

Their table top amateur band receivers and general coverage receivers were not as widely produced.

Gonset was purchased by the Young Spring and Wire Corporation in 1957.

Hobbyists should be careful if they come upon a *Gonset Super-Ceiver* (model 3041). This device was designed to serve as the "tail end" for an amateur band converter; the combination of the two making a complete receiver. It will not function unless it is matched with a *Gonset Super-Six Converter*, or equivalent.

Gonset

801 S. Main St.
Burbank, CA

1955-1957

Gonset

Div. of Young Spring & Wire Corp.
801 S. Main St.
Burbank, CA

1957-1962

Gonset Inc.

LTV Ling Altec, Inc.
1515 S. Manchester Ave.
Anaheim, CA

1968



G-33

General Coverage Communications Receiver
Single Conversion Superheterodyne. 6 Tubes.

Features:

- 1/4" Head. Jack
- Speaker 4"
- Bandsread
- Antenna Trimmer
- Dial Light
- Speaker Out

Specifications:

Coverage540 - 34000 kHz Modes AM/CW
IF1650 kHz. Antenna Input . Terminals

Circuit Complement:

6BE6 Converter, 6BA6 1st IF, 6BA6 2nd IF/BFO, 6AV6 Detector/AVC/1st Audio, 6CM6 2nd Audio and 6X4 Rectifier.

Accessories:

3285 Speaker 3269 Crystal Calibrator 100 kHz

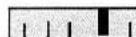
Comments:

Ranges: .54-1.6, 1.8-6, 6-13 and 13-34 MHz. Drum type dial. An early example of the early use of printed circuits. Gonset model #3222.



Made In: United States 1958-1961

Voltages: 110-120 VAC

Readout:  Analog

Physical: 16.5x8x10" 22 Lbs.
419x203x254mm 10 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$90	\$40-50
Rating:	★★★	⑦



G-43

General Coverage Communications Receiver
Single Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Speaker
- Antenna Trimmer
- Sensitivity
- ANL
- Mute Line
- Bandsread
- Dial Light
- Standby
- BFO
- Flywheel Tuning

Specifications:

Coverage 540 - 30000 kHz
Selectivity 6 kHz -6dB.
Sensitivity <3 μ V
Modes AM/CW-SSB
IF 1650 kHz
Antenna Input . Terminals

Circuit Complement:

6BE6 Converter, 6BA6 1st IF, 6BA6 2nd IF, 6AU6 3rd IF, 6AL5 Detector/ANL/AVC, 12AX7 1st Audio/BFO, 6CM6 2nd Audio and 6X4 Rectifier. Three IF stages and 12 tuned circuits.

Accessories:


3285 Speaker 3269 Crystal Calibrator 100 kHz

Comments:

Ranges: .54-1.6, 1.9-5.7, 5.7-13, 13-20, 20-25 and 25-30 MHz. The individual ranges are on a turret-type band display. Each range (except MW) also displays a bandsread amateur band. The 1/4" headphone jack, which also serves as an external speaker jack is found on the back of the radio. Printed circuit.

Made In: United States 1958-1961

Voltages: 110-120 VAC

Readout:  Analog

Physical: 16.5x8x10.5" 26 Lbs.
419x203x267mm 11.8 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$160	\$50-80
Rating:	★★★	⑦



G-63

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 11 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Speaker
- Antenna Trimmer
- Sensitivity
- ANL
- Mute Line
- Bandsread
- Dial Light
- Standby
- Dial Set
- BFO

Specifications:

Coverage Ham Bands 80-6M
Selectivity 3.3-.2 kHz -6dB.
Sensitivity <1 μ V -6 dB S/N
IF 2065, 263 kHz
Audio Out 3 W 3.2 ohm 5% dist.
Modes AM/CW-SSB
Stability01% during warmup
Image Rej >40-86 dB
Antenna Input . Terminals 50-100 ohms

Circuit Complement:

6BZ6 RF Amp, 6U8A Mixer/HF Osc, 6BE6 Converter, 12AX7 AF Amp/Q-Multiplier, 6BA6 IF Amp, 6BA6 IF Amp, 6AL5 AM Detector/AVC/ANL, 6BE6 Product Detector/BFO, 6AQ5 Audio Out, 5Y3GT Rectifier and 0B2 Voltage Regulator.

Accessories:

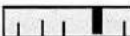
3285 Speaker 3269 Crystal Calibrator 100 kHz

Comments:

Ranges: 3.5-4, 7-7.3, 14-14.35, 21-21.45, 28-29.7 and 50-54 MHz. A turret-type band display shows one band at a time.

Made In: United States 1960-1961

Voltages: 117 VAC 50-60 Hz 65W

Readout:  Analog

Physical: 16.5x8x10" 22 Lbs.
419x203x254mm 10 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$240	\$90-100
Rating:	★★★	⑦



G-66



Amateur Band Communications Receiver
Double Conversion Superheterodyne. 9 Tubes

Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- Antenna Trimmer
- ANL
- Mute Line
- Dial Light

Specifications:

Coverage Ham Bands 160-10 +MW Modes AM/CW-SSB
Selectivity 4 kHz -6dB. IF 2050, 265 kHz
Sensitivity <1.5 μ V -10 dB S/N Image Rej >60 dB
Audio Out 3 W 8% dist.. Antenna Input . Motorola

Circuit Complement:

6DC6 RF Amp, 6U8 Mixer-Buffer, 6C4 Local Osc, 6BE6 Conv, 6AU6 IF Amp, 6AL5 Det/AVC/ANL, 6AW8 Audio Amp/BFO, 6AQ5 Audio Output and OB2 Voltage Reg.

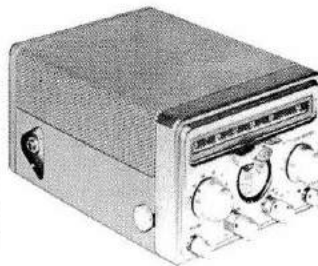
Accessories:

3098 PS 12VDC

3069 PS/Spkr 115VAC/12VDC

Comments: Designed for mobile use. Headphone jack on the left side. Ranges: .54-2, 3.5-4, 7-7.3, 14-14.35 21-21.45 and 28-29.7 MHz. Requires speaker (unless used with 3069 Power Supply / Speaker).

Variants: Model **G-66B** 1957 \$189-210 has logo above S-meter and incorporates an additional stage of I.F. amplification (6BH6) which improves noise limiting on the higher frequencies.



Made In: United States 1955-1957

Voltages: Optional 6/12 VDC PS or optional 115 VAC PS

Readout: Analog

Physical: 6.5x4.5x9" 8 Lbs.
165x114x229mm 3.6 kg

Status: Inactive Manufacturer
Inactive Model

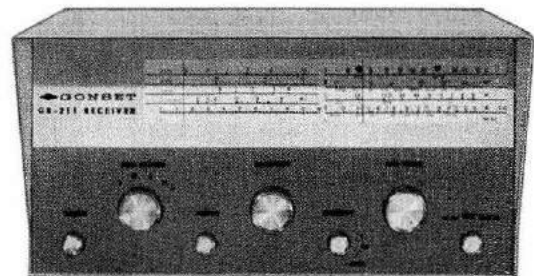
Rarity: Scarce

Reviews: QST June 1956
CQ July 1956

	New	Used
Price:	\$170-210	\$175-190
Rating:	★★★★	⑦



GR-211



General Coverage Communications Receiver
Single Conversion Superheterodyne. 5 Tubes plus Semiconductors.

Features:

- Dial Lamp
- Speaker
- Antenna Trimmer
- Bandsread
- Flywheel Tuning

Specifications:

Coverage 540 - 34000 kHz Modes AM/CW
Antenna Input Terminals

Circuit Complement:

5 Tubes and 2 solid state rectifiers.

Comments:

Bandsread for 80 to 10 meters plus CB.

Made In: United States 1961-1962

Voltages: 115 VAC

Readout: Analog

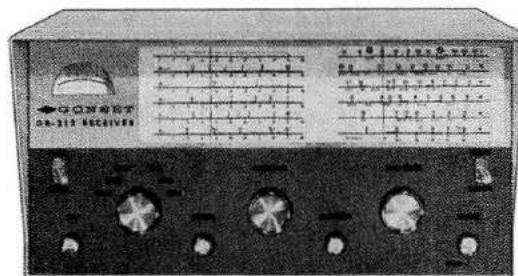
Physical: 16.25x8x10"
413x203x254mm

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$70	\$35-50
Rating:	★★★	⑦

GR-212



General Coverage Communications Receiver

Double Conversion Superheterodyne. 6 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S Meter
- Speaker
- Bandsread
- Sensitivity
- BFO
- Mute Line
- Antenna Trimmer
- Dial Light
- Standby
- Flywheel Tuning

Specifications:

Coverage550 - 34000 kHz¹ Modes AM/CW-SSB
 IF1650, 455 kHz Antenna Input . Terminals
 Sensitivity<1 μ V 6 dB S/N CW

Circuit Complement:

6U8A Mixer/HF Osc, 6BA6 IF Amp, 6BE6 2nd Mixer/Osc, 6BA6 2nd IF, 6AL5
 Detector/ANL, 12AX7 1st Audio/BFO and 6AQ5 Audio Amp.

Comments:

Ranges: .55-1.8, 1.8-5.7, 5.7-13, 13-20, 20-25 and 25-30 MHz. Bandsread for 80
 through 10 meters.

Made In: United States 1961-1962

Voltages: 117 VAC 60 Hz

Readout:  Analog

Physical: 16.25x8x10.5" 20 Lbs.
 413x203x267mm 9.1 kg

Status: Inactive Manufacturer
 Inactive Model

Rarity: Scarce

Rarity: QST May 1962

	New	Used
Price:	\$100-110	\$50-70
Rating:	★★★	⑦

26 Hallicrafters

The **Hallicrafters** Company was founded by Bill Halligan in 1932. The first receivers were hand made (thus the name *Hall* for Halligan and *crafters* for hand crafted). To increase production and obtain the proper manufacturing licenses, Halligan purchased the Silver-Marshall Company. This business struggled to an end in 1934. Halligan then combined with the then anemic Echophone Company.

By the end of the 1930's the company was moving along well, bringing out new models to meet each new circuit advancement as well as making transmitters. Hallicrafters produced all types of equipment for the war effort. After World War II the company began producing consumer electronics items including clock radios, TVs and phonographs. The 1950's were very good for Hallicrafters, but the company was sold twice, ultimately to Northrop in 1966. Hallicrafters did not prosper under the wing of Northrop. By the mid 1970's sales were down sharply and Northrop sold the company in 1975. Efforts to successfully continue and revive the company have failed. Chuck Dachis' book *Radios By Hallicrafters* is a must-read for any Hallicrafters enthusiast or collector. Collectors should note that many low priced models of the 1940's did not feature power transformers. Caution should be followed when dealing with these models to avoid shock or electrocution. Also note that Hallicrafters shortwave receivers with an "X" in the model number usually indicated that a crystal filter or a fixed crystal position was used. This rule did not apply to their VHF radios.

Hallicrafters Co.
Chicago 16, Ill. 1945-1947

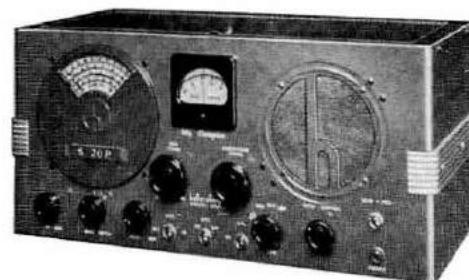
Hallicrafters Co.
4401 W. Fifth Ave.
Chicago 24, Ill. 1950-1966

Hallicrafters Co.
Subsidiary of Northrop Corp.
600 Hicks Rd.
Rolling Meadows, IL 60018 1968-1972

the hallicrafters co.

S-20R Sky Champion

General Coverage Communications Receiver
Single Conversion Superheterodyne. 9 Tubes.



Features:

- 1/4" Head. Jack
- Standby
- ANL
- Bandsread 0-100
- Mute Terminals
- AVC ON/OFF
- BFO
- Speaker Terminals
- Speaker 5"
- RF Gain
- Tone Hi/Med/Low
- Jack for S-Meter
- Dial Light

Specifications:

Coverage 550 - 44000 kHz Modes AM/CW
IF 455 kHz. Antenna Input , Terminals 400 ohm
Audio Out 2.5 W

Circuit Complement:

6SK7 RF Amp, 6K8 1st Detector-Mixer/HF Osc, 6SK7 1st IF Amp, 6SK7 2nd IF Amp, 6SQ7 2nd Detector/AVC/1st Audio Amp, 6F6G 2nd Audio Amp, 6H6 ANL, 6J5GT BFO and 80 Rectifier.

Accessories:

SM-20 Ext. S-Meter

Comments:

Ranges: .55-1.78, 1.74-5.4, 5.3-15.8 and 15.5-44 MHz. Gray metal cabinet.

Variants:

The prior model **S-20** had 8 tubes 1938 \$50.

Made In: United States 1939-1945

Voltages: 117 VAC

Readout:  Analog

Physical: 18.5x8.5x9.375" 32 Lbs.
470x216x238mm 14.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$50-60	\$50-125
Rating:	★★★	⑦

the hallicrafters co.

S-22R Skyrider Marine

Marine Communications Receiver

Single Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- Mute Terminals
- Speaker 5"
- Hinged Cover
- Standby
- AVC
- RF Gain
- Dial Light
- ANL
- BFO
- Tone
- Bandsread 0-100
- Speaker Terminals
- Jack for S-Meter

Specifications:

Coverage 110 - 18000 kHz Modes AM/CW
 IF 1600 kHz. Antenna Input . Terminals
 Audio Out 2.5 W

Circuit Complement:

6SK7 RF Amp, 6K8 1st Detector-Mixer/HF Osc, 6SK7 1st IF Amp, 6SK7 2nd IF Amp, 6SQ7 2nd Detector/AVC/1st Audio Amp, 25L6 2nd Audio Amp, 6J5 BFO and 25Z5 Rectifier.

Comments:

Reception gap from 1500-1700 kHz. Ranges: .11-.41, .4-1.5, 1.7-5.9, and 5.3-18 MHz. Designed for marine use. Black wrinkle metal cabinet

Variants:

The earlier model S-22 1938 was similar, but the entire 365° of the tuning dial was exposed rather than just a window as on the S-22R. The S-22 covered 140-18500 kHz and had a 465 kHz IF.

Made In: United States 1941-1945

Voltages: 110 VAC or 110 VDC
50W

Readout:  Analog

Physical: 18.5x8.5x9.375" 31 Lbs.
470x216x238mm 14.1 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$75	\$30-90
Rating:	★★★	⑦

the hallicrafters co.

S-38

General Coverage Communications Receiver

Single Conversion Superheterodyne. 6 Tubes.



Features:

- Tip Head. Jack
- Mute Terminals
- Dial Light
- ANL
- Speaker 5"
- Standby
- BFO
- Bandsread 0-100
- Spkr.-Phone Switch

Specifications:

Coverage 540 - 32000 kHz Modes AM/CW
 Selectivity 7 kHz -6dB. IF 455 kHz.
 Sensitivity <11µV @5MHz 50 mW Antenna Input . Terminals
 Audio Out 1.6 W

Circuit Complement:

12SA7 Converter, 12SK7 IF Amp, 12SQ7 BFO/NL, 12SQ7 Detector/AVC, 35L6GT Audio Output and 35Z5GT Rectifier.

Comments:

Ranges: .540-1.65, 1.65-5, 5-14.5 and 13.5-32 MHz. Black metal cabinet. The S-38 series did not feature a power transformer. The S-38 was produced in large numbers.

Made In: United States 1946-1949

Voltages: 105-125 VAC 50/60Hz 29W
or 105-125 VDC

Readout:  Analog

Physical: 12.875x7x7.25" 11 Lbs.
327x178x184mm 5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

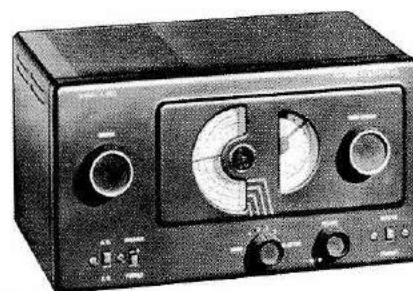
Reviews: CQ July 1946
CQ September 1986

	New	Used
Price:	\$40-49	\$30-60
Rating:	★★★	⑦

the hallicrafters co.

S-38A

General Coverage Communications Receiver
Single Conversion Superheterodyne. 5 Tubes.



Features:

- Tip Head. Jack • Standby • BFO • Bandspread 0-100
- Mute Terminals • Speaker 5" • Dial Light • Spkr.-Phone Switch

Specifications:

Coverage 540 - 32000 kHz Modes AM/CW
IF 455 kHz. Antenna Input . Terminals
Audio Out 1.6 W

Circuit Complement:


12SA7 Converter, 12SK7 IF Amp/BFO, 12SQ7 Detector/AVC, 35L6GT Audio Output and 35Z5GT Rectifier.

Comments:

Ranges: .540-1.65, 1.65-5, 5-14.5 and 13.5-32 MHz. Similar to model S-38 sans CW Pitch knob and NL switch. Black cabinet.

Made In: United States 1948-1950

Voltages: 105-125 VAC 50/60 Hz
105-125 VDC

Readout:  Analog

Physical: 12.875x7x7.25" 14 Lbs.
327x178x184mm 6.4 kg

Status: Inactive Manufacturer
Inactive Model

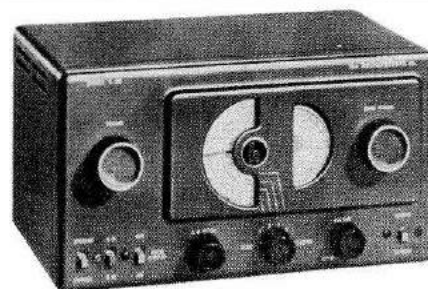
Rarity: Common

	New	Used
Price:	\$40	\$25-50
Rating:	★★★	⑦

the hallicrafters co.

S-38B

General Coverage Communications Receiver
Single Conversion Superheterodyne. 5 Tubes.



Features:

- Tip Head. Jack • Standby • Mute Line • Bandspread 0-100
- Speaker 5" • Dial Lamp • Speaker Terminals
- Spkr/Phone Switch

Specifications:

Coverage 540 - 32000 kHz Modes AM/CW
IF 455 kHz. Antenna Input . Terminals
Audio Out 1.6 W 3.2 ohms

Circuit Complement:

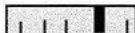
12SA7 Converter, 12SK7 IF Amp/BFO, 12SQ7 Detector/AVC, 35L6GT Audio Out and 35Z5GT Rectifier.

Comments:

Ranges: .540-1.65, 1.65-5.1, 5-14.5 and 13-32 MHz. Black wrinkle steel cabinet.

Made In: United States 1949-1952

Voltages: 105-125 VAC 50/60 Hz
30W or 105-125 VDC

Readout:  Analog

Physical: 12.875x7x7.25" 14 Lbs.
327x178x197mm 6.4 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$49	\$25-50
Rating:	★★★	⑦

the hallicrafters co.

S-38C

General Coverage Communications Receiver
Single Conversion Superheterodyne. 5 Tubes.

Features:

- Tip Head. Jack
- Standby
- Mute Line
- Bandsread 0-100
- Speaker 5"
- Dial Lamp
- Speaker Terminals
- Spkr/Phone Switch

Specifications:

Coverage540 - 32000 kHz Modes AM/CW
IF455 kHz. Antenna Input . Terminals
Audio Out 1.6 W

Circuit complement:

12SA7 Converter, 12SK7 IF Amp/BFO, 12SQ7 Detector/AVC, 50L6GT Output and 35Z5GT Rectifier.


Comments:

Ranges: .54-1.65, 1.65-5, 5-14.5 and 13.5-32 MHz. Has black dial with white lettering. Gray steel cabinet.



Made In: United States 1952-1954

Voltages: 105-125 VAC 50/60 Hz
30W or 105-125 VDC

Readout:  Analog

Physical: 12.875x7x7.75" 12 Lbs.
327x178x197mm 5.4 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$50	\$30-50
Rating:	★★★	⑦

the hallicrafters co.

S-38D

General Coverage Communications Receiver
Single Conversion Superheterodyne. 5 Tubes.

Features:

- Tip Head. Jack
- Standby
- Bandsread 0-100
- Speaker 5"
- Dial Lamp
- Speaker-Headphone Switch

Specifications:

Coverage540 - 32000 kHz Modes AM/CW
IF455 kHz Antenna Input . Terminals
Audio Out 1 W 3.2 ohms

Circuit complement:

12SA7 Converter, 12SG7 IF Amp/BFO, 12SQ7 Detector/Audio Amp, 50L6GT Audio Out and 35Z5GT Rectifier.

Comments:

Ranges: .55-1.6, 1.7-5, 5-14 and 13-30 MHz. Gray cabinet.


Variants:

Models 5R10 and 5R100 similar, but with black cases 1952 (scarce).



Made In: United States 1954-1957

Voltages: 105-125 VAC 50/60 Hz
30W

Readout:  Analog

Physical: 13x7.5x8.875" 11 Lbs.
330x191x225mm 5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$50-60	\$25-50
Rating:	★★★	⑦

the hallicrafters co.

S-38E

General Coverage Communications Receiver
Single Conversion Superheterodyne. 5 Tubes.

Features:

- Head. Tip Jack
- Standby
- Mute Line
- Bandspread 0-100
- Speaker 5"
- Dial Lamp
- Speaker-Phone Switch

Specifications:

Coverage540 - 32000 kHz Modes AM/CW
IF455 kHz Antenna Input . Terminals
Audio Out1W 3.2 ohms

Circuit complement:

12BE6 Converter, 12BA6 IF Amp/BFO, 12AU6 Amp, 50C4 Audio Amp and 35W4 Rectifier.

Comments:

Ranges: .54-1.6, 1.6-5, 5-14 and 13-30 MHz. Gray metal cabinet with silver trim.

Variants:

Model **S-38EM** has a mahogany wood case with gold trim. Model **S-38EB** has a "blond" wood case with gold trim.



Made In: United States 1956-1961

Voltages: 105-125 VAC 50/60 Hz
30W

Readout:  Analog

Physical: 12.875x7x9.25" 13 Lbs.
327x178x235mm 5.9 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$55-60	\$25-50
Rating:	★★★	⑦

the hallicrafters co.

S-40

General Coverage Communications Receiver
Single Conversion Superheterodyne. 9 Tubes.

Features:

- 1/4" Head. Jack
- Pitch
- Standby
- Bandspread 0-100
- Sensitivity
- Speaker
- BFO
- Flywheel Tuning
- Mute Terminals
- Tone (3 Pos.)
- Hinged Top
- Speaker Terminals
- ANL
- AVC ON/OFF
- Dial Lamp

Specifications:

Coverage540 - 43000 kHz Modes AM/CW
Selectivity6.8 kHz -6dB IF455 kHz.
Sensitivity8µV for 500 mw @40MHz Antenna Input . Terminals
Audio Out1 W 10% Dist.

Circuit Complement:

6SG7 RF Amp, 6SA7 Converter, (2) 6SK7 IF Amp, 6F6G 2nd Audio Amp, 6H6 ANL/AVC, 6J5GT BFO, 6SQ7 Detector/AF Amp and 80 Rectifier.

Accessories:

SM-40 External S-Meter (shown) SP-44 Panoramic Unit

Comments:

Ranges: .54-1.7, 1.7-5.35, 5.35-15.7 and 15.7-43 MHz.

Variants:

Model **S-40U** 110/130/150/220/250 VAC.



Made In: United States 1946-1947

Voltages: 105-125 VAC 50/60 Hz

Readout:  Analog

Physical: 18.5x9x11" 28 Lbs.
470x229x280mm 12.7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

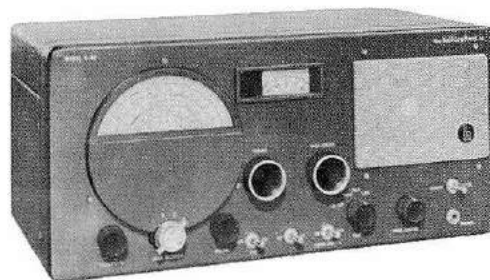
Reviews: QST July 1946

	New	Used
Price:	\$79	\$30-80
Rating:	★★★	⑦

the hallicrafters co.

S-40A

General Coverage Communications Receiver
Single Conversion Superheterodyne. 9 Tubes.



Features:

- 1/4" Head. Jack
- Sensitivity
- Mute Terminals
- ANL
- Pitch
- Speaker 5"
- Tone (3 Pos.)
- Dial Lamp
- Standby
- BFO
- Hinged Top
- Bandsread 0-100
- AVC ON/OFF
- Speaker Terminals

Specifications:

Coverage 540 - 43000 kHz Modes AM/CW
Selectivity 6.8 kHz -6dB IF 455 kHz.
Sensitivity 8μV for 500 mw @40MHz Antenna Input . Terminals
Audio Out 1 W 3.2 ohms 10% Dist.

Circuit Complement:

6SG7 RF Amp, 6SA7 Converter, (2) 6SK7 IF Amp, 6H6 ANL/AVC, 6J5GT BFO, 6SQ7 Detector/AF Amp., 6FG6 Output and 5Y3GT Rectifier. One RF and two IF stages.

Accessories:

SM-40 Ext. S-Meter

Comments:


Ranges: .54-1.7, 1.7-5.3, 5.3-15.7 and 15.7-43 MHz. Black metal cabinet.

Variants:

Model **S-52** is an AC-DC version of the S-40A \$99 1949. Model **S-40AU** 110/130/150/220/250 VAC 25-60 Hz \$100-111.

Made In: United States 1947-1950

Voltages: 105-125 VAC 50/60 Hz
75W

Readout:  Analog

Physical: 18.5x9x11" 30 Lbs.
470x229x280mm 13.6 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$80-110	\$25-80
Rating:	★★★	⑦

the hallicrafters co.

S-40B

General Coverage Communications Receiver
Single Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- Sensitivity
- Mute Terminals
- Pitch
- Speaker 5"
- Tone (3 Pos.)
- AVC ON/OFF
- BFO
- Dial Lamp
- Bandsread 0-100
- ANL
- Hinged Cover

Specifications:

Coverage 540 - 43000 kHz Modes AM/CW
Selectivity 6.8 kHz -6dB IF 455 kHz.
Audio Out 1 W 3.2 ohms Antenna Input . Terminals 50-600 ohm

Circuit Complement:

6SG7 RF Amp, 6SA7 Converter, (2) 6SK7 IF Amp, 6H6 ANL/AVC, 6SL7 BFO/ Detector, 6FG6 Output and 5Y3GT Rectifier. One RF and two IF stages.

Comments:

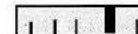
Ranges: .54-1.7, 1.7-5.3, 5.3-15.7 and 15.7-43 MHz. Black steel cabinet.

Variants:

Model **S-40BU** is an export version of the S-40B operating 115/250 VAC 25-60 Hz \$100-130. Models **S-77** and **S-77A** are AC-DC versions of the S-40B \$100-130.

Made In: United States 1950-1955

Voltages: 105-125 VAC 50/60 Hz
75W

Readout:  Analog

Physical: 18.5x9x11" 33 Lbs.
470x229x279mm 15 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$89-130	\$30-80
Rating:	★★★	⑦

the hallicrafters co.

S-41G Skyrider Jr.

General Coverage Communications Receiver
Single Conversion Superheterodyne. 6 Tubes.



Features:

- Tip Head. Jack
- Standby
- BFO
- Bandsread 0-100
- Sensitivity
- Speaker
- Dial Lamp
- Speaker-Phone
- Switch
- ANL

Specifications:

Coverage 550 - 30000 kHz Modes AM/CW
IF 455 kHz. Antenna Input . Terminals

Circuit Complement:

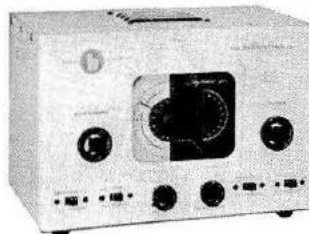
12SA7 Converter, 12SK7 IF Amp, 12SQ7GT Detector/AVC/AF, 12SQ7GT BFO/ANL, 35L6GT Output and 35Z5GT Rectifier.

Comments:

Ranges: .55-2.1, 2.1-7.7, 7.7-30 MHz. Gray and black metal cabinet.

Variants:

The model **S-41W** was produced in a white cabinet (shown right). The S-41W is very scarce and highly collectable model. In good condition sells for \$100 - \$150.



Made In: United States 1945-1946

Voltages: 105-125 VAC 50/60 Hz
or 105-125 VDC

Readout:  Analog

Physical:

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$34-37	\$40-80
Rating:	★★★	⑦

the hallicrafters co.

S-47

General Coverage Broadcast Receiver
Single Conversion Superheterodyne. 15 Tubes.



Features:

- 5 AM Presets
- 5 FM Presets
- FM AFC
- Phono Input Jack
- Bass (3 Pos.)
- Treble (4 Pos.)
- Speaker Terminals
- 115 VAC Socket
- Dial Lamp
- Hinged Cover

Specifications:

Coverage See Comments. Modes AM/[FM]
IF 455 kHz. [10.7 MHz FM] Antenna Input . Terminals
Audio Out 10 W 500 ohm

Circuit Complement:

6BA6 RF Amp, 6BE6 RF Amp, 6J6 HFO/AFC, (2) 6SG7 IF amps, 6SG7 FM 3rd IF Amp/AM Detector, 6SH7 FM 4th IF, 6AL5 FM Detector (2) 6J5 AF Amp, (2) 6SQ7 AF Amp, (2) 6V6GT Output and 5U4G Rectifier. Temperature compensated oscillator, one RF and three IF stages. 10 watt push-pull audio.

Accessories:

R-42 Speaker R-44 Speaker Rack Mount Kit

Comments:

Ranges: .54-1.72, 5.9-18.2, 9-12 and 15-18 MHz plus FM broadcast band 88-108 MHz. Sold primarily for its virtues as an AM, FM hi-fidelity broadcast receiver. It was also built as an OEM radio, and therefore may be found under different labels (Sears, Concord, etc.). Requires a speaker.

Variants: Model S-47U is the same except that it will operate from 110-250 VAC 25-60 Hz \$246. Model **S-47C** is a chassis-only version for custom or rack installations \$209.

Made In: United States 1947-1950

Voltages: 105-125 VAC 50/60 Hz
180W

Readout:  Analog

Physical: Cabinet version:
20x10.25x16" 63 Lbs.
508x260x406mm 28 kg
Rack version:
19x8.75x13.75"
483x222x350mm

Status: Inactive Manufacturer
Inactive Model

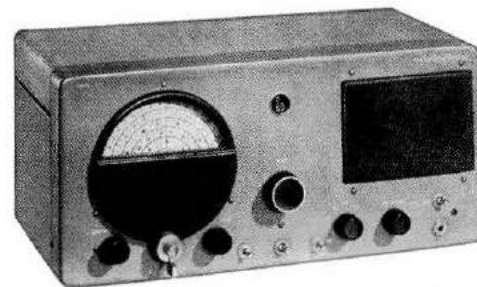
Rarity: Scarce

	New	Used
Price:	\$190-230	\$90-140
Rating:	★★★	⑦

the hallicrafters co.

S-51 Sea Farer

Marine Band Communications Receiver
Single Conversion Superheterodyne. 10 Tubes.



Features:

- 1/4" Head. Jack
- Sensitivity
- Speaker
- BFO
- Mute Terminals
- Tone (3 Pos.)
- Flywheel Tuning
- 3 Pretuned Channels
- ANL
- Standby
- Dial Lamp
- Hinged Cover

Specifications:

Coverage 132 - 13000 kHz Modes AM/CW
IF 455 kHz. Antenna Input . Terminals
Audio Out 1 W 3.2 ohms

Circuit Complement:

6SS7 RF Amp, 7A8 Converter, (2) 6SS7 IF Amp, 7C6 Detector, 7A6 ANL, 6SS7 BFO, 35L6GT, 6V6GT Power Output, 35L6GT Power Output and 35Z5GT Rectifier.

Accessories:

1X629 6VDC Power Adapter 1X630 12 VDC Power Adapter
1X631 32 VDC Power Adapter

Comments:

Ranges: .132-.405, .485-1.53, 1.45-4.55 and 4.2-13 MHz. Also three pre-tuned channels (A/B/C) for fixed operation. Range A: .2-.3, B&C: 2-3 MHz. Fixed channels are set by lifting the hinged top cover and making internal adjustments.

Made In: United States 1948-1950

Voltages: 105-125 VAC 50/60 Hz
or 105-125 VDC

Readout:  Analog

Physical: 18.5x9x9.5" 27 Lbs.
470x229x241mm 12.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$130-150	\$70-90
Rating:	★★★	⑦

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S-52

Marine Band Communications Receiver
Single Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- Sensitivity
- Speaker 5"
- Bandsread 0-100
- Mute Terminals
- Tone (3 Pos.)
- BFO
- Standby
- AVC ON/OFF
- ANL
- Dial Lamp

Specifications:

Coverage 530 - 43000 kHz Modes AM/CW
IF 455 kHz. Antenna Input . Terminals
Audio Out 1 W 3.2 ohms

Circuit Complement:

6SG7 RF Amp, 6SA7 Osc/Mixer, 6SK7 1st IF, 6SK7 2nd IF, 6H6 2nd Detector/ANL, 6SC7 1st Audio/BFO, 25L6 Audio Output and 25Z5 Rectifier.

Comments:

Ranges: .54-1.68, 1.68-5.4, 5.3-15.5 and 15.5-44 MHz.
The S-52 is very similar to the S-40.

Made In: United States 1948-1949

Voltages: 105-125 VAC 60 Hz 40W
or 105-125 VDC

Readout:  Analog

Physical: 18.5x9.675x8.25"
470x246x210mm

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$100	\$70-90
Rating:	★★★	⑦

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S-53

General Coverage Communications Receiver
Single Conversion Superheterodyne. 8 Tubes.

Features:

- Tip Head. Jack
- S-Meter
- Tone (2 Pos.).
- Bandsread 1-100
- Standby
- Speaker 5"
- ANL
- Dial Lamp
- Mute Terminals
- Sensitivity
- Phono Input Jack
- Speaker Terminals
- Hinged Cover

Specifications:

Coverage54-31¹, 48-54.5 MHz Modes AM/CW
Audio Out 1 W 3.2 ohms IF 2075 kHz.
Sensitivity <5μV Antenna Input . Terminals 50-600 ohms

Circuit Complement:

6C4 HF Osc, 6BA6 Mixer, 6BA6 2nd Mixer, 6BA6 IF Amp, 6H6 Detector/ANL, 6SC7 Audio Amp/BFO, 6K6GT Audio Out and 5Y3GT Rectifier. Two IF stages.

Comments:

Ranges: .54-1.63, 2.5-6.3, 6.3-16, 14-30 and 48-54.5 MHz. ¹ Reception gap from 1630-2500 kHz. Black metal case. Note the IF.

Variants:

Model **S-53U** 105-250 VAC 25-60 Hz \$88.



Made In: United States 1948-1950

Voltages: 105/125 VAC 50/60 Hz

Readout:  Analog

Physical: 12.875x7x7.75" 18 Lbs.
327x178x197mm 8.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: CQ September 1986

	New	Used
Price:	\$70-90	\$30-70
Rating:	★★★	⑦

the hallicrafters co.

S-53A

General Coverage Communications Receiver
Single Conversion Superheterodyne. 8 Tubes.

Features:

- Tip Head. Jack
- S-Meter
- Tone (2 Pos.).
- Bandsread 1-100
- Standby
- Speaker 5"
- ANL
- Dial Lamp
- Mute Terminals
- Sensitivity
- Phono Input Jack
- Speaker Terminals
- Hinged Cover

Specifications:

Coverage54-31¹ and 48-54.5 MHz Modes AM/CW
Audio Out 1 W 3.2 ohms Antenna Input . Terminals 52-600 ohms
IF 455 kHz

Circuit Complement:

6C4 HF Osc, 6BA6 Mixer, 6BA6 2nd Mixer, 6BA6 IF Amp, 6H6 Detector/AVC/ANL, 6SC7 Audio Amp/BFO, 6K6GT Audio Out and 5Y3GT Rectifier. Has two IF stages.

Comments:

Ranges: .54-1.63, 2.5-6.3, 6.3-16, 14-30 and 48-54.5 MHz. ¹ Reception gap from 1630-2500 kHz. Black steel case.

Variants:

Model **S-53AU** operates 105-250 VAC 25-60 Hz



Made In: United States 1951-1957

Voltages: 105-125 VAC 50/60 Hz
50W

Readout:  Analog

Physical: 12.875x7x7.75" 18 Lbs.
327x178x197mm 8.2 kg

Status: Inactive Manufacturer
Inactive Model

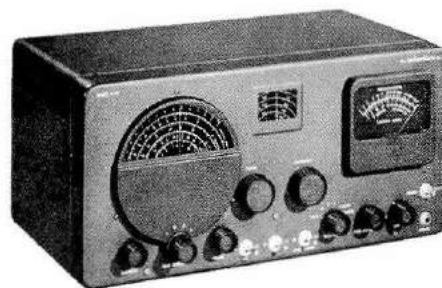
Rarity: Common

	New	Used
Price:	\$80-100	\$40-70
Rating:	★★★	⑦

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S-76

General Coverage Communications Receiver
Double Conversion Superheterodyne. 10 Tubes.



Features:

- 1/4" Head. Jack
- Sensitivity
- Speaker Output
- Standby
- S-Meter
- ANL
- Dial Lamp
- Tone
- AVC ON/OFF
- Mute Line
- Hinged Cover
- Phono Input Jack
- BFO
- Bandsread
- Line Out 500 ohm
- AVC

Specifications:

Coverage 538 - 34000 kHz¹ Modes AM/CW
Selectivity 5 pos. 5.6-.5 kHz IF 1650, 50 kHz
Audio Out 2.5 W 3.2 ohms Antenna Input . Terminals and SO239 hole

Circuit Complement:

6CB6 RF Amp, 6AU6 Converter, 6C4 Osc., 6BA6 1st IF, 6BE6 2nd Converter, 6BA6 2nd IF, 6AL5 Detector/ANL, 6SC7 BFO, 6K6GT Output, VR150 Regulator and 5Y3GT Rectifier. One RF, two conversion and two IF stages.

Accessories:

R-46 Speaker

Comments:

Ranges: .538-1.58, 1.72-4.9, 4.6-13, 12-34 MHz. ¹ Reception gap from 1580 -1720 kHz because of the first IF frequency. Bandsread 80 to 10 meters. Gray metal cabinet with huge S-Meter.

Variants:

Model **S-76U** is an export version operating 100-250 VAC 25-60 Hz

Made In: United States 1951-1954

Voltages: 105-125 VAC 50/60 Hz
77W

Readout:  Analog

Physical: 18.5x9x9.5" 41 Lbs.
470x229x241mm 18.6 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$170-200	\$70-140
Rating:	★★★	⑦

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S-85

General Coverage Communications Receiver
Single Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- Sensitivity
- Speaker 5"
- BFO
- ANL
- Dial Lamp
- AVC ON/OFF
- Mute Line
- Standby
- Bandsread
- Tone (3 Pos.)

Specifications:

Coverage 540 - 34000 kHz Modes AM/CW
IF 455 kHz Antenna Input . Terminals
Audio Out 2W 3.2 ohms

Circuit Complement:

6SG7 RF Amp, 6SA7 Converter, 6SK7 1st IF Amp, 6SK7 2nd IF Amp, 6SC7 BFO/ Audio Amp, 6K6GT Audio Out, 6H6 Detector/ANL/AVC and 5Y3GT Rectifier. Two IF stages.

Accessories:

R-46B Speaker

Comments:


Ranges: .538-1.6, 1.55-4.6, 4.6-13, 12-34 MHz. Bandsread 80 to 10 meters. Some S-85s featured a phono input jack on the back. Gray-black metal cabinet.

Variants:

Model **S-85U** is an export version operating 100-250 VAC 25-60 Hz. Model **S-86** is an AC-DC version of the S-85 \$119.95. The S-86 substitutes 25L6 for 6K6 and 25Z6 for 5Y3 and add ballast.

Made In: United States 1954-1957

Voltages: 105/125 VAC 50/60 Hz
75W

Readout:  Analog

Physical: 18.5x9x10.625" 27.5 Lbs.
470x229x270mm 125 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$120	\$60-100
Rating:	★★★	⑦

S-107

General Coverage Communications Receiver
Single Conversion Superheterodyne. 8 Tubes.



Features:

- Head Tip Jack
- BFO
- Standby
- Sensitivity
- Speaker 5"
- Dial Lamp
- Phono Input Jack
- Bandsread 0-100
- Tone LOW/HI
- ANL

Specifications:

Coverage See Comments Modes AM/CW
IF 455 kHz. Antenna Input . Terminals 50-300 ohms
Audio Out 1 W 3.2 ohm

Circuit Complement:

6C4 Osc, 6BA6 Mixer, 6BA6 IF Amp, 6BA6 IF Amp, 6H6 Detector/AVC/ANL, 6SC7 BFO/AF Amp, 6K6GT Output and 5Y3GT Rectifier.

Comments:

Ranges: .54-1.63, 2.5-6.3, 6.3-16, 14-31 and 48-54.5 MHz. The S-107 replaces the S-53A.

Variants:

Model **S-107Mark I** has: 4x6" speaker, 2 prong phone jack and speaker-phone switch. Model **S-107 Mark II** has: 4x6" speaker, 1/4" Head. Jack, no speaker-phone switch, no phono input jack and has external amp jack.

Made In: United States 1958-1962

Voltages: 105/125 VAC 50/60 Hz
50W

Readout:  Analog

Physical: 13.375x7x8.875" 16 Lbs.
340x178x225mm 7.2 kg

Status: Inactive Manufacturer
Inactive Model

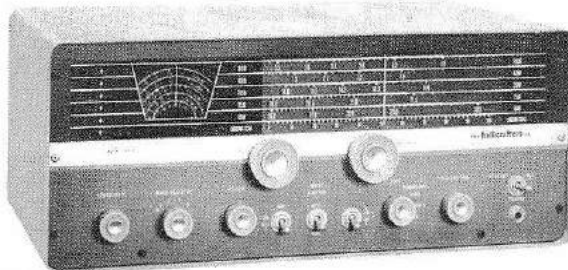
Rarity: Common

	New	Used
Price:	\$60-129	\$35-70
Rating:	★★★	⑦



S-108

General Coverage Communications Receiver
Single Conversion Superheterodyne. 8 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- AVC ON/OFF
- BFO
- Bandsread
- RF Gain
- ANL
- Mute Line
- Speaker Terminals
- Tone
- Standby
- Speaker

Specifications:

Coverage 540 - 34000 kHz Modes AM/CW
IF 455 kHz Antenna Input . Terminals 52-600 ohms
Audio Out 3.2/500 ohms 2W

Circuit Complement:

6SG7 RF Amp, 6SA7 Converter, 6SK7 1st IF Amp, 6SK7 2nd IF Amp, 6SC7 Audio Amp/BFO, 6K6GT Audio Out, 6H6 Detector/ANL/AVC and 5Y3GT Rectifier.

Accessories:

R-46B Speaker R-47 Speaker R-48 Speaker

Comments:


Ranges: .538-1.6, 1.55-4.6, 4.6-13 and 12-34 MHz. Bandsread: 3.5-4, 7-7.3, 14-14.4, 20.1-21.5 and 26-30 MHz. Note that the bandsread ranges are on the long horizontal scale. Gray metal cabinet.

Variants:

Model **S-109** operates from AC or DC current. Also see model SX-110 which is the same but with: S-Meter, Antenna Trimmer and Crystal Filter.

Made In: United States 1959-1963

Voltages: 105-125 VAC 50/60 Hz
75W

Readout:  Analog

Physical: 18.75x8.5x10.2" 32 Lbs.
476x216x259mm 14.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: ODXA May 1987

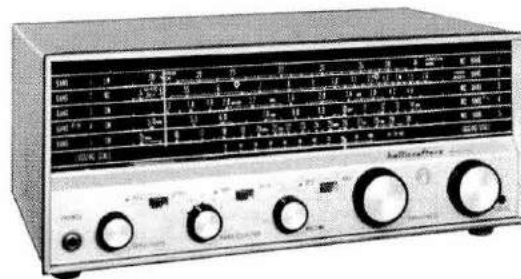
	New	Used
Price:	\$130-150	\$40-90
Rating:	★★★	⑦



S-118

General Coverage Communications Receiver

Single Conversion Superheterodyne. 5 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- BFO
- Standby
- Bandspread 0-100
- Speaker 4"
- Dial Lamp
- Record Out Jack
- MW Ferrite Antenna
- Phono Input
- Sensitivity
- ANL

Specifications:

Coverage 185 - 31000 kHz¹ Modes AM/SSB-CW
 IF 455 kHz. Antenna Input . Terminals
 Audio Out 3.2 ohms

Circuit Complement:

6BL8 Mixer/Osc., 12BA6 IF Amp, 6BL8 IF Amp/BFO, 6T8A 1st Audio/Detector/AVC/
 ANL, 6AQ5A Output plus 2 silicon rectifiers.

Comments:


Ranges: .185-.42, .495-1.62, 1.6-4.95, 4.85-15 and 14.8-31 MHz. ¹ Reception gap
 from 420-495 kHz.

Variants:

Model S-118 Mark II was later production.

Made In: United States 1961-1963

Voltages: 105-125 VAC 50/60 Hz
 33W

Readout:  Analog

Physical: 14.5x6.38x9.875" 15 Lbs.
 368x162x251mm 6.8 kg

Status: Inactive Manufacturer
 Inactive Model

Rarity: Common

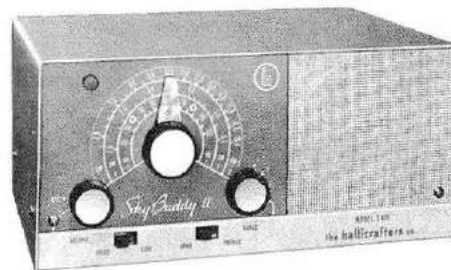
	New	Used
Price:	\$100	\$40-60
Rating:	★★★	⑦



S-119 Sky Buddy II

Shortwave Broadcast Receiver

Single Conversion Superheterodyne. 3 Tubes plus Semiconductors.



Features:

- Head. Tip Jack
- Speaker
- Dial Lamp
- Voice/Code Switch
- Ferrite MW Ant.
- Speaker/Headphone Switch

Specifications:

Coverage See Comments Modes AM/CW
 IF 455 kHz. Antenna Input . Terminals

Circuit Complement:

6BE6 Converter, 6BA6 IF Amp/BFO, 6CM6 1st Audio/Audio Out plus diode detector
 (1N295).

Comments:

Ranges: .535-1640, 2.0-5.5 and 6-16.4 MHz. Has planetary drive tuning. Sold both
 as a kit and assembled. The S-119 was closed-out in 1964 at \$30.
 The original *Sky Buddy* was the model S-19 and sold for \$30 new in 1939.

Variants:

S-119K Kit version new for \$40

Made In: United States 1959-1964

Voltages: 115 VAC 60 Hz
 16W

Readout:  Analog

Physical: 10.5x5x7.5" 8 Lbs.
 267x127x191mm 3.6 kg

Status: Inactive Manufacturer
 Inactive Model

Rarity: Common

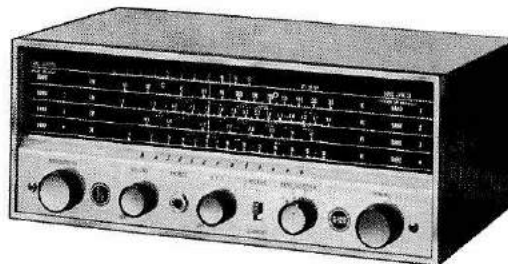
	New	Used
Price:	\$50	\$30-60
Rating:	★★	⑦



S-120

General Coverage Communications Receiver

Single Conversion Superheterodyne. 4 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- BFO
- Standby
- Bandspread 0-100
- Speaker 5"
- Dial Lamp
- Tels. Whip 45"
- MW Ferrite Antenna
- Sensitivity

Specifications:

Coverage 550 - 30000 kHz
IF 455 kHz.
Modes AM/CW
Antenna Input . Terminals

Circuit Complement:

12BE6 Converter, 12BE6 IF Amp/BFO, 12AV6 Audio Amp/AVC, 50C5 Audio Power Amp plus 1 selenium rectifier.

Comments:


Ranges: .55-1.6, 1.6-4.4, 4.5-11 and 11-30 MHz. Gray steel cabinet. Billed as "The world's most popular shortwave receiver." This entry-level model was produced in large numbers.

Variants:

Model SW-500 has a different case \$70 1961.

Made In: United States 1960-1962

Voltages: 105-125 VAC 50/60 Hz
30W or 105-125 VDC

Readout:  Analog

Physical: 13.5x5.875x8.75" 10.2 Lbs.
343x149x222mm 4.6 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

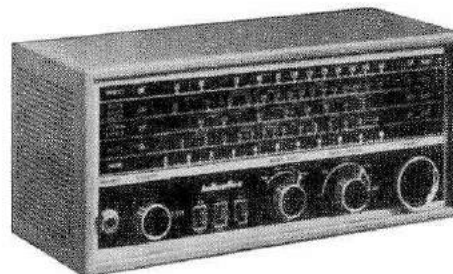
	New	Used
Price:	\$60-70	\$20-45
Rating:	★★	⑦



S-120A Star-Quest

General Coverage Communications Receiver

Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- BFO
- Standby
- Bandspread 0-100
- Speaker 5"
- Dial Lamp
- Ferrite MW Antenna

Specifications:

Coverage 540 - 31000 kHz
IF 455 kHz.
Modes AM/CW
Antenna Input . Terminals

Circuit Complement:

9 Transistors and 6 diodes.

Comments:

Ranges: .55-1.6, 1.6-4.4, 4.5-11 and 11-30 MHz. The S-120A is a solid state version of the popular S-120 and was manufactured in Japan. It was very different from the S-120. Based on the appearance and circuit of this radio, it may have come from the same factory that produced for Midland.

Made In: Japan 1969-1972

Voltages: 105-125 VAC 50/60 Hz
30W or 12 VDC

Readout:  Analog

Physical: 12x5.5x5" 8 Lbs.
304x140x127mm 3.7 kg

Status: Inactive Manufacturer
Inactive Model

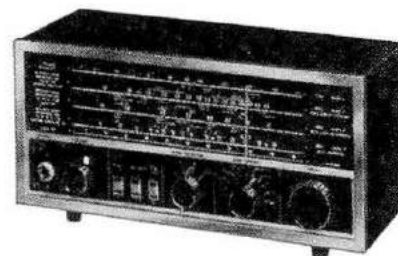
Rarity: Common

	New	Used
Price:	\$60	\$20-40
Rating:	★	⑦



S-125 Star-Quest II

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- BFO
- Speaker
- Bandspread 0-100
- Dial Lamp
- AGC
- Ferrite MW Antenna

Specifications:

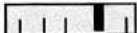
Coverage 550 - 30000 kHz Modes AM-CW
Audio Out 1 W Antenna Input . Terminals

Comments:

Virtually identical to the S-120A. Perhaps produced by the same factory that manufactured the Midland line?

Made In: Japan 1970-1973

Voltages: 117 VAC or 12 VDC

Readout:  Analog

Physical: ?

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: *Ham Radio* May 1973

	New	Used
Price:	\$60	\$20-40
Rating:	★★	⑦



S-129

General Coverage Communications Receiver
Single Conversion Superheterodyne. 7 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- Bandspread
- Antenna Trimmer
- Product Det. SSB/CW
- RF Gain
- ANL
- BFO
- Speaker Terminals
- Mute Terminals

Specifications:

Coverage 535 - 31500 kHz¹ Modes AM/SSB-CW
Selectivity Wide/Normal/Narrow IF 1650 kHz.
Audio Out 2 W 3.2 ohms Antenna Input . Terminals (50-600 ohms)

Circuit Complement:

6DC6 RF Amp, 6EA8 Mixer/Osc, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6AL5 AM Detector/NL, 6BE6 BFO/Product Detector, 6GW8 AF Amp/Output plus a diode.

Accessories:


HA-7 Calibrator R-47 Speaker R-50 Speaker
R-51 Speaker/Clock

Comments:

Main ranges: .535-1.61, 1.725-4.7, 4.5-13 and 11.9-31.5 MHz. ¹ Reception gap from 1610-1725 kHz. Bandspread ranges: 3.5-4, 7-7.4, 13.9-14.4, 20-22 and 26-30 MHz. Note that the bandspread occupies the long horizontal dial, and the main tuning occupies the smaller rotary dial. The S-129 is very similar to the model SX-130, but less the crystal filter, crystal phasing and S-Meter.

Made In: United States 1965-1967

Voltages: 105-125 VAC 50/60 Hz
48W

Readout:  Analog

Physical: 18.875x8x9.75" 22 Lbs.
479x203x248mm 10 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

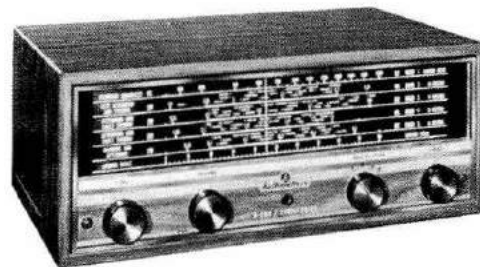
	New	Used
Price:	\$165	\$60-90
Rating:	★★★	⑦



S-200 Legionnaire

Shortwave Broadcast Receiver

Single Conversion Superheterodyne. 4 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- Speaker 4"
- Dial Lamp
- Ferrite MW Antenna
- Tone Control

Specifications:

Coverage SWL. See Comments. Modes AM
IF 455 kHz. Antenna Input . Terminals

Circuit Complement:


12BE6 Converter, 12BA6 IF Amp, 12AV6 AVC/Audio Amp, 50C5 Power Output, plus diode.

Comments:

Ranges: .54-1.6, 5.9-6.25, 9.45-9.8, 11.65-12.05 and 15.05-15.55 MHz. Walnut grained vinyl-covered metal cabinet.

Made In: United States 1965-1969

Voltages: 120 VAC 50/60 Hz
30W

Readout:  Analog

Physical: 13.5x6x8.375" 12 Lbs.
343x152x213mm 5.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

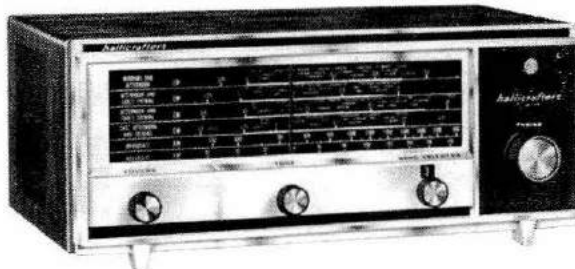
	New	Used
Price:	\$60	\$45-50
Rating:	★★★	⑦



S-210

Shortwave Broadcast Receiver

Single Conversion Superheterodyne. 6 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- Tone
- FM Band
- Ferrite MW Antenna
- Speaker 4"
- Dial Lamp

Specifications:

Coverage SWBC +FM see Comments Modes AM [WBFM]
IF 455 kHz, 10.7 MHz Antenna Input . Terminals
Audio Out 1 W

Circuit Complement:

12DT8 FM RF Amp, 12BE6 AM Converter, 12BA6 FM/AM IF Amp, 12BA6 FM IF Amp/AM Detector, 12AX7 Audio Amp, 35C5 Audio Power Amp, plus 3 diodes. Double conversion on FM band only.

Comments:

Ranges: .54-1.62, 5.9-6.25, 9.45-9.8, 11.65-12.05, 15.05-15.55 MHz plus FM 88-108 MHz. The headphone jack is on the rear panel. Walnut grained vinyl-covered metal cabinet with silver trim. Not a strong performer on medium wave or shortwave.

Made In: United States 1967-1969

Voltages: 105-125 VAC 50/60 Hz
or 105-125 VDC

Readout:  Analog

Physical: 13.5x5.875x8.375" 12 Lbs.
343x149x213mm 5.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

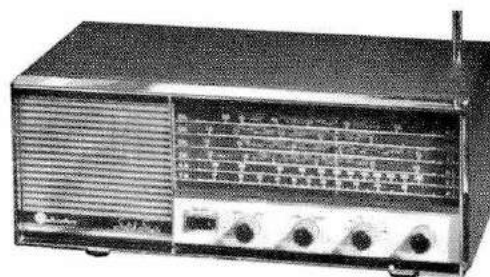
	New	Used
Price:	\$80	\$50-60
Rating:	★	⑦



S-214

Shortwave Broadcast Receiver

Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Tone
- AFC [FM]
- Telescopic Antenna
- Speaker 4"
- Fine Tuning
- Line Out Jack
- Ferrite MW Antenna
- Dial Lamp

Specifications:

Coverage See Comments.

Audio Out 1 W

Modes AM, [WBFM]

Antenna Input . Terminals

Circuit Complement:

Ten transistors and six diodes.

Accessories:


RSP-1 Speaker

Comments:

Ranges: .55-1.6, 5.9-6.25, 9.4-9.8, 11.5-12, 15.05-15.55 and FM 88-108 MHz. The headphone jack is on the rear panel. Vinyl-covered metal cabinet with silver trim.

Made In: Japan 1967-1971

Voltages: 105-125 VAC 50/60 Hz

Readout:  Analog

Physical: 13.92x5.9x8" 10 Lbs.
354x150x203mm 4.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$90	\$25-55
Rating:	★★	⑦



S-240

General Coverage Communications Receiver

Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- AFC [FM]
- Telescopic Whip
- Speaker 4"
- Fine Tuning
- Dial Lamp
- Ferrite MW Antenna
- BFO
- Tone
- Line Out Jack

Specifications:

Coverage55-30 MHz + FM

IF455 kHz [10.7 MHz]

Audio Out 1 W 8 ohms

Modes AM/CW, [WBFM]

Antenna Input . Terminals

Circuit Complement:

Ten transistors and six diodes.

Accessories:


RSP-1 Speaker

Comments:

Ranges: .55-1.6, 2-5, 4.8-11.5, 11-30 MHz and FM 88-108 MHz. Reception gap from 1.6-2 MHz. Headphone jack is on the back. A fine tuning knob is mounted concentrically on the main tuning knob. This is referred to as "Bandspread" in some ads. Walnut grained vinyl-covered metal cabinet with die-cast chromed front.

Made In: Japan 1968-1971

Voltages: 105-125 VAC 50/60 Hz

Readout:  Analog

Physical: 13.8x6.8x8" 10.5 Lbs.
343x173x203mm 4.8 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$110-120	\$50-55
Rating:	★★	⑦

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SX-25 Super Defiant

General Coverage Communications Receiver
Single Conversion Superheterodyne. 12 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Tone (2 pos.)
- Bandspread
- RF Gain
- Mute Line
- Standby
- Speaker Terminals
- ANL
- AVC
- Dial Lamp
- Hinged Top Cover

Specifications:

Coverage 550 kHz - 42 MHz
Selectivity 6 positions
Sensitivity
Audio Out 8 W 500/5000 ohms
Modes AM/CW
IF 455 kHz
Antenna Input . Terminals

Circuit Complement:

6SK7 1st RF Amp, 6SK7 2nd RF Amp, 6K8 1st Detector-Mixer, 6SK7 1st IF ANL, 6SK7 2nd IF Amp, 6SQ7 2nd Detector/AVC 1st Audio Amp, 6SQ7 Phase Inverter, (2) 6F6 Audio Amp, 6H6 ANL, 6J5GT BFO and 80 Rectifier.

Accessories:

PM-23 Speaker

Comments:


Ranges: .54-1.7-1.7-5.1, 5-15.7 and 15.2-42 MHz. The true bandspread covers: 80, 40, 20 and 10 meters.

Variants:

Model **SX-24 Skyride Defiant** was similar, but with 9 tubes \$70 1939.

Made In: United States 1940-1945

Voltages: 100-125 VAC 50-60 Hz
120W

Readout:  Analog

Physical: 19.5x9.5x11.125" 46 Lbs.
495x241x283mm 21 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$95	\$80-180
Rating:	★★★★	⑦

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SX-28A Super Sky-Rider

General Coverage Communications Receiver
Single Conversion Superheterodyne. 15 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Phono Input Jack
- Tone
- NL
- Sensitivity
- Bandspread
- Dial Lock
- Speaker Terminals
- Flywheel Tuning
- AVC ON/OFF
- Dial Lamps
- Hinged Top Cover
- Mute Line
- Bass Switch
- Standby
- Antenna Trimmer

Specifications:

Coverage 550 kHz - 43 MHz
Selectivity 6 positions
Audio Out 8 W 500/5000 ohms
Modes AM/CW
IF 455 kHz
Antenna Input . Terminals

Circuit Complement:

6AB7 1st RF Amp, 6SK7 2nd RF Amp, 6SA7 Mixer, 6SA7 HF Osc, 6L7 1st IF ANL, 6SK7 2nd IF Amp, 6B8 AVC Amp, 6B8 2nd Detector/S Meter, 6AB7 Noise Amp, 6H6 Noise Rectifier, 6J5 BFO, 6SC7 1st Audio Amp, (2) 6V6GT Audio Amps and 5Z3 Rectifier.

Accessories:

PM-23 Speaker

Comments: Ranges: .55-1.6, 1.6-3, 3-5.8, 5.8-11, 11-21 and 21-43 MHz. Bandspread: 3.5-4, 7-7.3, 14-14.4 and 28-30 MHz.

Variants: The SX-28A is an enhanced government model. The regular model **SX-28** \$180 was made in 1941. A large number of SX-28s were sent to Russia as a part of the World War II Lend-Lease Act. When they reached Russia they were modified to accommodate Russian tubes. They are plentiful on the Russian used market.

Made In: United States 1944-1945

Voltages: 105-125 VAC 50/60 Hz
120W

Readout:  Analog

Physical: 20.5x10x14.75" 75 Lbs.
521x254x375mm 34 kg

Status: Inactive Manufacturer
Inactive Model

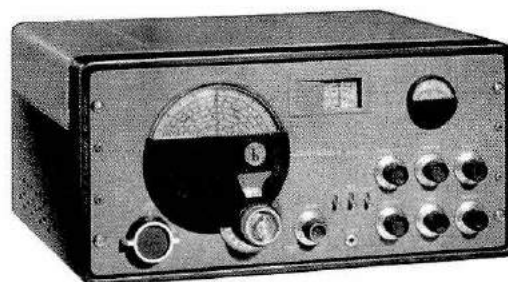
Rarity: Common

	New	Used
Price:	\$225-275	\$100-250
Rating:	★★★★	⑦

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SX-42

General Coverage Communications Receiver
Double Conversion Superheterodyne. 15 Tubes.



Features:

- 1/4" Head. Jack
- Sensitivity
- NL
- Standby
- S-Meter
- Bandspread
- AVC
- Tone (4 Pos.)
- Dial Lock
- Dial Lamp
- Phono Input Jack
- Speaker Terminals
- Hinged Top Cover

Specifications:

Coverage 540 kHz - 110 MHz Modes AM/CW/FM
Selectivity 6 Positions IF 455 kHz, 10.7 MHz
Audio Out 10 W 500/5000 ohms Antenna Input . Terminals 300 ohms

Circuit Complement:

(2) 6AG5 RF Amp, 7F8 Converter, 6SK7 IF Amp, 6SG7 IF Amp, 7H7 IF Amp, 7H7 FM Limiter/AM/Detector, 6H6 FM Detector, 7A4 BFO, 6H6 ANL, 6SL7 AF Amp, (2) 6V6 Output, VR-150 Regulator and 5U4G Rectifier.

Accessories:

R-42 Speaker R-44 Speaker PM-23 Speaker
R-45 Speaker B-42 Tilt Base

Comments:

Ranges: .54-1.62, 1.62-5, 5-15, 15-30, 27-55 and 55-109 MHz. Wideband FM detection available from 27 to 110 MHz. Bandspread for 80, 40, 20, 10 and 6 meters. Requires a speaker. One of the first receivers designed after World War II.

Variants:

Model **SX-42U** operates from 110/130/150/220/250 VAC \$288.

Made In: United States 1947-1950

Voltages: 105-125 VAC 50/60 Hz
120W

Readout:  Analog

Physical: 20x10.25x16" 52 Lbs.
508x260x203mm 23.6 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

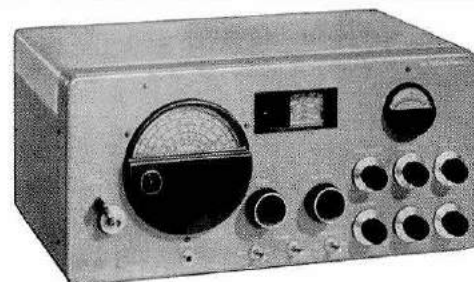
Reviews: QST May 1947

	New	Used
Price:	\$250-275	\$250-450
Rating:	★★★★	⑦

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SX-43

General Coverage Communications Receiver
Double Conversion Superheterodyne. 11 Tubes.



Features:

- 1/4" Head. Jack
- Sensitivity
- NL
- Standby
- S-Meter
- BFO
- AVC
- Hinged Top
- Tone (2 Pos.)
- Phono Input Jack
- Dial Lamps
- Bandspread 0-100
- Speaker Terminals
- Mute Line

Specifications:

Coverage 54-55 & 86-109 MHz Modes AM/CW/FM
Selectivity 4 Positions IF 455 kHz, 10.7 MHz
Audio Out 3 W Antenna Input . Terminals 72-600 ohms

Circuit Complement:

6BA6 RF Amp, 7F8 Converter, 6SG7 IF Amp, (2) 6SH7 IF Amp, 6H6 AM Detector/ANL, 6AL5 FM Detector, 6J5 BFO, 6SQ7 AM Amp, 6V6 Output and 5Y3GT Rectifier. One RF and two IF stages.

Accessories:

R-42 Speaker R-44 Speaker

Comments:


Ranges: .54-1.7, 1.7-5, 5-16, 14-14.4, 15.5-44, 44-54 and 86-109 MHz. Bandspread: 80, 40, 20, 10 and 6 meters.

Variants:

Model **SX-43U** operates from 110/130/150/220/250 VAC \$178.

Made In: United States 1947-1950

Voltages: 105-125 VAC 50/60 Hz
120W

Readout:  Analog

Physical: 18.5x8.875x12" 41 Lbs.
470x225x305mm 18.6 kg

Status: Inactive Manufacturer
Inactive Model

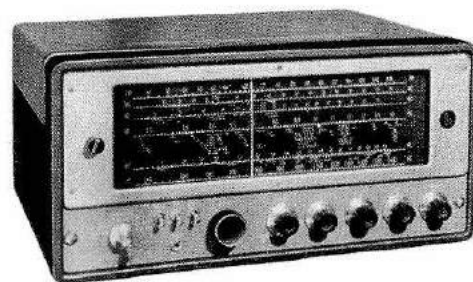
Rarity: Common

	New	Used
Price:	\$160-190	\$80-150
Rating:	★★★	⑦

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SX-62

General Coverage Communications Receiver
Double Conversion Superheterodyne. 16 Tubes.



Features:

- 1/4" Head Jack • S-Meter • Tone (4 Pos.) • Dial Lamps • NL
- Sensitivity • Standby • Calibrator • Speaker Terminals
- Hinged Cover • Pointer Reset • 60:1 Tuning Ratio • Phono Input Jack

Specifications:

Coverage 540 kHz - 109 MHz Modes AM/CW/FM
Selectivity 6 Positions IF 455 kHz, 10.7 MHz
Audio Out 10W 500/5000 ohms Antenna Input . Terminals

Circuit Complement:

6AG5 1st Amp, 6AG5 2nd RF, 7F8 Converter, 6SK7 IF Amp, 6SG7 IF Amp, 7H7 IF Amp, 7H7 FM Limiter/AM Detector, 6H6 FM Detector, 7A4 BFO, 6H6 ANL, 6SL7 AF Amp, (2) 6V6 Push-pull Audio Output, 6C4 Calibration Oscillators, VR-150 Regulator and 5U4G Rectifier. Two RF and three IF stages.

Accessories:

R-42 Speaker R-44 Speaker PM-23 Speaker
R-46 Speaker

Comments: Ranges: .55-1.62, 1.62-4.9, 4.9-15, 15-32, 27-56 and 54-109 MHz. The SX-62 is an SWL version of the SX-42. Only the selected band is illuminated. Gray metal cabinet.

Variants: Model **SX-62U** operates 105-250 VAC 25/60 kHz. Model **SX-62A** seems to be the same, but with a different audio impedance 1956 \$350-430. The **SX-62AU** operates 105-250 VAC 20/100 kHz. Model **SX-62B** 14 tubes 1965 \$525.

Made In: United States 1949-1953

Voltages: 105-125 VAC 50/60 Hz
120W

Readout:  Analog

Physical: 20x10.25x16" 64 Lbs.
508x260x406mm 29 kg

Status: Inactive Manufacturer
Inactive Model

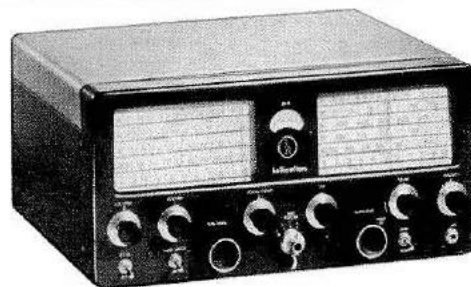
Rarity: Common

	New	Used
Price:	\$269-299	\$100-210
Rating:	★★★★	⑦

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SX-71

General Coverage Communications Receiver
Double Conversion Superheterodyne. 14 Tubes.



Features:

- 1/4" Head Jack • S-Meter • Bandspread • Antenna Trimmer
- Sensitivity • Tone • BFO • Hinged Top Cover
- Mute Terminals • Standby • ANL • Phono Input
- Dial Lamp

Specifications:

Coverage 538-35000 kHz +46-56 MHz Modes AM/CW/NBFM
Selectivity 3 Position IF 2075, 455 kHz
Sensitivity <1µV Antenna Input . Terminals
Audio Out 3 W 3.2 / 500 ohms

Circuit Complement:

6BA6 RF Amp, 6C4 HF Osc, 6AU6 Mixer, 6BE6 2nd Converter, (3) 6SK7 IF Amp, 6SH7 IF Amp, 6H6 ANL/AVC, 6SC7 BFO/RF Amp, 6AL5 Detector, 6K6GT Output, VR-150 Voltage Regulator and 5Y3GT Rectifier. One RF, two conversion and three IF stages. Single conversion below 4.7 MHz.

Accessories:

R-44B Speaker R-46 Speaker

Comments:

Ranges: .538-1.65, 1.6-4.8, 4.6-13.5, 12.5-35 and 46-56 MHz. Bandspread: 3.5-4, 7-7.3, 14-14.4, 27-30 and 47-55 MHz. Requires speaker.

Variants:

Model **SX-71U** operates from 115-230 VAC 25/60 Hz. \$210.

Made In: United States 1949-1954

Voltages: 105-125 VAC 50/60 Hz
90W

Readout:  Analog

Physical: 18.5x8.875x12" 33 Lbs.
330x130x280mm 15 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$180-250	\$100-170
Rating:	★★★★	⑦

SX-73 R-274/FRR

General Coverage Communications Receiver
Double Conversion Superheterodyne. 20 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Dial Lock
- 6000° of Tuning
- RF Gain
- AGC
- BFO
- Antenna Trimmer
- Mute Terminals
- Standby
- ANL
- 6 Fixed Channels
- Crystal Vernier
- Rack Handles
- Dial Lamp
- Hinged Top
- 50:1 Tune Ratio
- IF Out Jack

Specifications:

Coverage 540 - 54000 kHz
Selectivity 6 Pos. .3-14.5 kHz
Sensitivity <1μV
Audio Out 2W 600/50 ohms

Modes AM/CW/MCW
Image Rej. 80-120 dB
IF 455 kHz, 6 MHz.
Antenna Input . 50-200 Ohms

Circuit Complement:

Two IF and two RF stages. Single conversion below 7 MHz. Coils are mounted on a turret and mechanically move into active circuit to reduce cross modulation.

Accessories: R-46 Speaker

Comments: Has 6 fixed crystal positions with crystal vernier tuning. Designed for rack mounting. Ranges: .54-1.35, 1.35-3.45, 3.45-7, 7-14.4, 14.4-29.7 and 29.7-54 MHz. Requires a speaker. Designed initially for the military commercial market. Ready for mounting in a 19" rack. Very collectable. Note that the Hammarlund SP-600 and this model both carry the "R-274" military nomenclature, but have mechanical and circuitry differences. It has also been reported, by a reliable source, that Hammarlund made a few R-274s in this SX-73 configuration.

Made In: United States 1952-1953

Voltages: 75/105/117/130/190
210/234/260 VAC 50/60 Hz

Readout:  Analog

Physical: 20x11x18.5" 58 Lbs.
508x280x470mm 26.3 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	\$975	\$460-850
Rating:	★★★★	⑦

SX-88

General Coverage Communications Receiver
Double Conversion Superheterodyne. 20 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Bandsread
- Calibrator 100 kHz
- Sensitivity
- Notch Filter
- BFO ±2.5 kHz
- Antenna Trimmer
- Mute Terminals
- Standby
- Phono Input Jack
- Speaker Terminals
- Flywheel Tuning
- AVC ON/OFF
- IF Out Jack
- Dial Locks
- Dial Lamp
- ANL

Specifications:

Coverage 535 - 33000 kHz
Selectivity 10/5/2.5/1.25/.5/.25 kHz
Sensitivity <2 μV A
Audio Out 10 W 3.2/8/500 ohms.

Modes AM/CW/SSB
IF 50, 2075 kHz.
IF 50, 1550 kHz. 1.69-3 MHz
Antenna Input . Terminals & SO239 hole

Circuit Complement:

6CB6 RF Amp, 6BA6 RF Amp, 6U8 1st Mixer/1st Converter. Osc, 6BA6 2nd Mixer, 12AT7 2nd Converter Osc, 6BA6 IF Amp, 6BA6 IF Amp, 6BA6 IF Amp, 6AL5 (Det/ANL, 6CB6 AVC Amp, 12AU7 AVC Rect/Cath Fol, 12AX7 Audio Amp/Phase Inverter, 6V6GT Audio Out, 6V6GT Audio Out, 6C4 BFO, 6BA6 BFO Amp, 5U4G Rectifier, 0D3 Voltage Reg, 4H4 Current Regulator and 6BA6 Crystal Calibrator.


Accessories: R-46 Speaker R-46A Speaker

Comments: Ranges: .535-1.7, 1.69-3, 2.98-5.5, 5.4-10, 9.8-18.3 and 17.8-33 MHz. Bandsread: 160, 80, 40, 20, 15 and 11-10 meters. Illuminated dial-in-use indicator. Requires a speaker. Gear driven. Very highly regarded, collectable model.

Variants: Model SX-88U operates from 100-250V 25-60 Hz.

Made In: United States 1954-1955

Voltages: 105-125 VAC 50-60 Hz
138 W

Readout:  Analog

Physical: 20x9.25x"

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: QST June 1954

	New	Used
Price:	\$595	\$700-1300
Rating:	★★★★★	⑦

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SX-96

General Coverage Communications Receiver
Double Conversion Superheterodyne. 12 Tubes.



Features:

- 1/4" Head. Jack
- Sensitivity
- Mute Terminals
- ANL
- Line Out 500 ohms
- S-Meter
- Standby
- Dial Lamp
- AVC ON/OFF
- Bandsread
- BFO
- Phono Input Jack
- Hinged Top Cover
- Tone (2 Pos.)
- Antenna Trimmer
- Speaker Terminals
- Flywheel Tuning

Specifications:

Coverage538 - 34000 kHz¹ Modes AM/CW-SSB
Selectivity5/3/2/1/.5 kHz -6dB. IF 1650, 50.5 kHz.
Audio Out1.5W 3.2 ohms 10% dis. Antenna Input . Terminals 300 ohms

Circuit Complement:

6CB6 RF Amp, 6AU6 1st Mixer, 6C4 1st Converter Osc, 6BA6 1650 IF Amp, 6BA6 2nd Mixer, 6BA6 50.5 kHz IF Amp, 6BJ7 Detector/ANL/AVC, 6SC7 BFO/Audio Amp, 6K6GT, 0D3 Voltage Regulator and 5Y3GT Rectifier.

Accessories:

R-46A Speaker R-46B Speaker

Comments:

Ranges: .538-1.58, 1.72-4.9, 4.6-13 and 12-34 MHz. Bandsread: 80, 40, 20, 15 and 10-11 meters. ¹ Reception gap from 1580-1720 kHz. Gear driven tuning. Gray-black cabinet.

Made In: United States 1954-1956

Voltages: 105-125 VAC 50/60 Hz
85W

Readout:  Analog

Physical: 18.75x8.875x11" 34.5 Lbs.
476x225x279mm 15.6 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST June 1955

	New	Used
Price:	\$250	\$100-150
Rating:	★★★★	⑦

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SX-99

General Coverage Communications Receiver
Single Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- Sensitivity
- Dial Lamp
- S-Meter
- Stand-By
- NL
- Bandsread
- BFO
- AVC ON/OFF
- Hinged Cover
- Antenna Trimmer
- Speaker Terminals

Specifications:

Coverage538 - 34000 kHz Modes AM/CW-SSB
Selectivity4 Position. IF 455 kHz.
Audio Out2W 3.2/500 ohms Antenna Input . Terminals

Circuit Complement:

6SG7 RF Amp, 6SA7 Converter, 6SG7 1st IF Amp, 6SK7 2nd IF Amp, 6SC7 Audio Amp/BFO, 6K6GT Audio Output, 6H6 Detector/ANL/AVC and 5Y3 Rectifier. One Rf and two IF stages.

Accessories:

R-46 Speaker R-46A Speaker R-46B Speaker

Comments:


Ranges: .538-1.6, 1.55-4.6, 4.6-13 and 12-34 MHz.
Bandsread: 80-10 Meters. Requires a speaker. Black metal cabinet.

Variants:

The "universal" model, **SX-99U** operates 100-125 VAC 25-60 Hz.

Made In: United States 1955-1958

Voltages: 105-125 VAC 50/60 Hz

Readout:  Analog

Physical: 18.75x9x10.75" 28.4 Lbs.
476x229x273mm 13 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$150	\$90-110
Rating:	★★★★	⑦

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SX-100

General Coverage Communications Receiver
Double Conversion Superheterodyne. 14 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Bandsread
- Calibrator 100 kHz
- RF Gain
- Notch Filter
- BFO
- Antenna Trimmer
- Mute Terminals
- Record Out Jack
- Phono Input Jack
- Speaker Terminals
- ANL
- AVC ON/OFF
- Standby
- Line Out 500 ohms
- Dial Lamp

Specifications:

Coverage538 - 34000 kHz¹ Modes AM/CW/SSB
Selectivity5/3/2/1.5 kHz -6dB. IF 1650, 50 kHz.
Sensitivity<.1μV Antenna Input . Terminals & SO239 Hole
Audio Out 1.5W 3.2 ohms 10% dis.

Circuit Complement:

6CB6 RF Amp, 6AU6 1st Mixer, 6C4 HF Osc, 6BA6 1650kHz IF Amp, 6BA6 2nd Mixer, 6BA6 50 kHz IF Amp, 6BJ7 Detector/ANL/AVC, 6SC7 Audio Amp/BFO, 6K6GT Audio Out, 0A2 Voltage Regulator, 5Y3GT Rectifier, 12AT7 2nd Converter Osc, 6C4 50 kHz IF Amp and 6AU6 Crystal Calibrator.

Accessories:

R-46 Speaker R-46A Speaker R-46B Speaker

Comments: Ranges: .538-1.58, 1.72-4.9, 4.6-13 and 12-34 MHz. ¹Reception gap from 1580-1720 kHz. Bandsread: 3.5-4, 7-7.3, 14-14.35, 21-21.45 and 28-29.7 MHz. Gear driven tuning. Requires a speaker. Gray cabinet.

Variants: Model SX-100 Mark 1A and SX-100 Mark II were later production.

Made In: United States 1955-1962

Voltages: 105-125 VAC 50/60 Hz
88W

Readout:  Analog

Physical: 18.375x8.5x10.6" 42 Lbs.
467x216x269mm 19 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Abundant

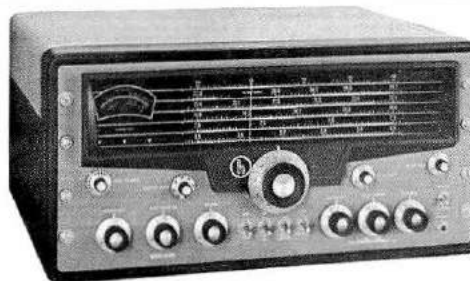
Reviews: QST December 1955

	New	Used
Price:	\$290-325	\$130-240
Rating:	★★★★	⑦

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SX-101

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 15 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Pointer Reset
- Calibrator 100 kHz
- RF Gain
- Notch Filter
- BFO
- Antenna Trimmer
- Mute Terminals
- Record Out Jack
- Phono Input Jack
- Speaker Terminals
- ANL
- Conv. Input Jack
- AVC ON/OFF
- 40:1 Tune Ratio

Specifications:

CoverageHam. See comments. Modes AM/CW/LSB/USB
Selectivity5/3/2/1.5 kHz -6dB. IF 1650, 50 kHz.
Audio Out 1W 3.2 ohms 10% dist. Antenna Input . SO239 & Terminals
Sensitivity1μV CW

Circuit Complement:

6CB6 RF Amp, 6BY6 1st Mixer, 12BY7 1st Converter Osc, 6BA6 1650 kHz IF Amp, 6BA6 2nd Mixer, 6BA6 50 kHz IF Amp, 6BJ7 Detector/ANL/AVC, 6SC7 Audio Amp/BFO, 6K6GT Audio Out, 0A2 Voltage Regulator, 5Y3GT Rectifier, 12AT7 2nd Converter Osc, 6C4 50 kHz IF Amp and 6AU6 Crystal Calibrator.

Accessories: R-46B Speaker R-47 Speaker

Comments: Ranges: 3.5-4, 7-7.3, 14-14.4, 21-21.5, 27-29.7 and 10 MHz. The dial is also pre-calibrated for a 2 meter 144-148 MHz or 6 meter 50-54 MHz converter. The band-in-use is individually illuminated. Touted as the *New heavyweight champion - employs heaviest chassis in the industry*. Requires a speaker. [¥100,000].

Variants: Model SX-101 Mark II. Model SX-101 Mark III 1958. Model SX-101 Mark IIIA (shown) 1959 \$400 CQ May 1959. Model SX-101A \$399-445 1959-61.

Made In: United States 1956-1958

Voltages: 105-125 VAC 50/60 Hz
115W

Readout:  Analog

Physical: 20x10.5x16" 70 Lbs.
508x267x406mm 31.7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

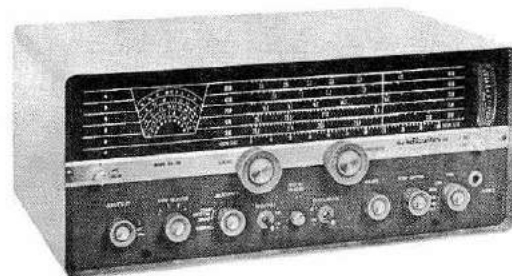
Reviews: QST October 1957

	New	Used
Price:	\$395	\$170-360
Rating:	★★★★	⑦



SX-110

General Coverage Communications Receiver
Single Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- AVC ON/OFF
- Tone LO/MED/HI
- RF Gain
- ANL
- Mute Line
- Antenna Trimmer
- BFO
- Standby
- Dial Lamp
- Speaker Terminals

Specifications:

Coverage538 - 34000 kHz Modes AM/CW
Selectivity3 Position IF 455 kHz
Audio Out3.2/500 ohms 2W Antenna Input . Terminals 52-600 ohms

Circuit Complement:

6SG7 RF Amp, 6SA7 Converter, 6SG7 1st IF Amp, 6SK7 2nd IF Amp, 6SC7 Audio Amp/BFO, 6K6GT Audio Out, 6H6 Detector/ANL/AVC and 5Y3GT Rectifier.

Accessories:

R-46B Speaker R-47 Speaker R-48 Speaker

Comments:

Ranges: .538-1.6, 1.55-4.6, 4.6-13 and 12-24 MHz. Bandsread: 3.5-4, 7-7.3, 14-14.4, 20.1-21.5 and 26-30 MHz. Note that the bandsread ranges are on the long horizontal scale. The model S-108 is the same sans: S-Meter, Antenna Trimmer and Crystal Filter. Gray steel cabinet.

Made In: United States 1960-1963

Voltages: 105-125 VAC 50/60 Hz
75W

Readout: Analog

Physical: 18.75x8.5x10.2" 28.25 Lbs.
476x216x259mm 13 kg

Status: Inactive Manufacturer
Inactive Model

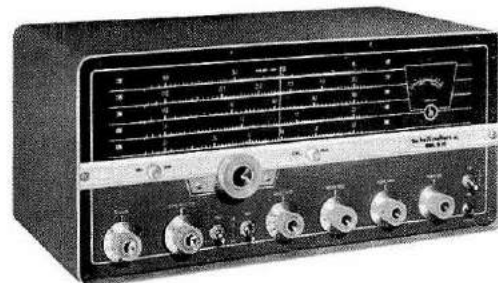
Rarity: Common

	New	Used
Price:	\$160-170	\$80-120
Rating:	★★★★	⑦



SX-111

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 13 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- AVC ON/OFF
- Calibrator 100 kHz
- RF Gain
- ANL
- Mute Line
- Antenna Trimmer
- Notch
- Pointer Reset
- BFO
- Speaker Terminals
- Standby
- 48:1 Tuning Ratio

Specifications:

CoverageHam. See Comments. Modes AM/CW/SSB
Selectivity5/3/2/1.5 kHz IF 50.75, 1650 kHz
Sensitivity<1µV 10 dB S/N Antenna Input . Terminals&RCA 50-70 ohm
Audio Out3.2/500 ohms

Circuit Complement:

6DC6 RF Amp, 6BY6 1st Mixer, 6CB6 1650 kHz IF Amp, 6DC6 50.75 kHz IF Amp, 6BJ7 Detector/AVC/ANL, 6C4 1st Osc, 5Y3GT Rectifier, 0A2 Regulator, 12AX7 Audio Amp/BFO, 6AQ5A Audio Out, 6BA6 2nd Mixer, 6AU6 Crystal Calibrator and 12AT7 2nd Converter Osc.

Accessories:

R-46B Speaker R-47 Speaker R-48 Speaker

Comments: Ranges: 3.5-4, 7-7.3, 14-14.4, 21-21.5, 28-29.7 MHz and WWV 10 MHz. As is usually the convention, the headphones will disengage the 3.2 ohm speaker output, but the 500 ohm output remains active at all times. The Calibrator was not included in very early production.

Variants: Model SX-111 Mark I was later production.

Made In: United States 1960-1963

Voltages: 105-125 VAC 50/60 Hz
83W

Readout: Analog

Physical: 18.7x8.81x10.3" 35.75 Lbs.
475x224x262mm 16.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST May 1960
CQ February 1961

	New	Used
Price:	\$250-280	\$90-150
Rating:	★★★★	⑦



SX-115

Amateur Band Communications Receiver

Triple Conversion Superheterodyne. 18 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- AVC ON/OFF
- Calibrator 100 kHz
- RF Gain
- ANL
- Mute Line
- Antenna Trimmer
- Notch
- Dial Lamp
- BFO
- Speaker Terminals
- Standby
- 50 kHz IF Out Jack

Specifications:

Coverage Ham. See Comments Modes AM/CW/SSB
 Selectivity 5/3/2/1/.5 kHz Stability < 300 Hz/hr after warm-up
 Sensitivity <.5µV 10 dB S/N SSB IF 6505-6005, 1005, 50.75 kHz
 IF Rej 1000x @ 60 dB down Image Rej. >60 dB
 Audio Out 1.5 W 3.2/500 ohms Antenna Input . SO239

Circuit Complement:

6DC6 RF Amp, 6BA6 1st Mixer, 12AT7 Crystal Osc, 6DC6 1st IF Amp, 6BA6 2nd Mixer, 6CB6 VFO, 6DC6 2nd IF Amp, 6BA6 3rd Mixer, 12AT7 SSB Swit Osc, 6DC6 3rd IF Amp, 6BY6 Product Detector, 6BJ7 AM Detector/2nd AVC Rectifier/ANL, 12AX7 BFO/1st Audio Amp, 6AQ5 Audio Out, 6AU6 Crystal Calibrator, 6AU6 S-Meter, 6AU6 1st Loop AVC Amp, 0A2 Voltage Regulator and 5 silicon diodes.

Comments:

Ranges: 3.5-4, 7-7.5, 14-14.5, 21-21.5, 28-28.5, 28.5-29, 29-29.5, 29.5-30 and 9.6-10 MHz. (9.6-10 MHz not calibrated). 1 kHz dial accuracy between calibration points. Gear driven tuning with virtually no backlash. Requires a speaker. Matches the HT-33 and HT-32 transmitters. Designed to compete with the Collins 75A/S series.

Made In: United States 1961-1964

Voltages: 105-125 VAC 50/60 Hz
85W

Readout: Analog Lin.

Physical: 16x10.5x16" 44 Lbs.
406x267x406mm 20 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: QST March 1962
CQ March 1964

	New	Used
Price:	\$595-600	\$450-800
Rating:	★★★★	⑦



SX-117

Amateur Band Communications Receiver

Triple Conversion Superheterodyne. 13 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- AVC ON/OFF
- Calibrator 100 kHz
- RF Gain
- ANL
- Mute Line
- Antenna Trimmer
- Notch
- Dial Lamp
- BFO
- Speaker Terminals
- Standby
- VFO Out Jack
- Cal Reset
- Crystal Osc Out Jack
- Preselector

Specifications:

Coverage Ham. See Comments Modes AM/USB/LSB
 Selectivity 5/2.5/.5 kHz Stability < 300 Hz/hr after warm-up
 Sensitivity <.5µV 10 dB S/N SSB IF 6500-6000, 1650, 50.75 kHz
 IF Rej >50 dB Antenna Input . RCA 50-70 ohms
 Audio Out75 W 3.2/500 ohms

Circuit Complement: 6DC6 RF Amp, 6EA8 1st Mixer/Cathode Fol, 12AT7 Crystal Osc, 6BA6 1st IF Amp, 6BE6 2nd Mixer, 6EA8 VFO/Cathode Fol, 6DC6 2nd IF Amp, 6EA8 3rd Mixer/SSB Swit Crystal Osc, 6BA6 3rd IF Amp, 6BE6 Product Detector/BFO, 6BN8 AM Detector/AVC Amp/AVC Rectifier, 6GW8 1st Audio Amp/Audio Out, 6AU6 Crystal Calibrator and four silicon diodes.

Accessories:

R47 Speaker R48 Speaker HA-10 LF/MF Converter (85-3000 kHz)

Comments: Ranges: 3.5-4, 7-7.5, 14-14.5, 21-21.5 and 28.5-29 MHz. Optional crystal positions for: 9.5-10, 28-28.5, 29-29.5 and 29.5-30 MHz. Requires a speaker. Matches the HT-44 Transmitter.

Made In: United States 1962-1965

Voltages: 105-125 VAC 50/60 Hz
70W

Readout: Analog Lin.

Physical: 15x7.75x14.75" 18.5 Lbs.
281x197x375mm 8.4 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST May 1963
CQ August 1964

	New	Used
Price:	\$380-400	\$100-200
Rating:	★★★★	⑦



SX-122

General Coverage Communications Receiver

Double Conversion Superheterodyne. 11 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- Bandspeed
- Antenna Trimmer
- RF Gain
- ANL
- BFO
- Speaker Terminals
- Dial Lamp
- Mute Terminals

Specifications:

Coverage 538 - 34000 kHz¹ Modes AM/SSB-CW
 Selectivity 5/2.5/.5 kHz -6dB. IF 1650, 50 kHz.
 Sensitivity <.5µV SSB Antenna Input . Terminals
 Audio Out 1 W 3.2 ohms 10% dist.

Circuit Complement:

6DC6 RF Amp, 6AU6 1st Mixer, 6C4 HF Osc, 6DC6 1650 kHz IF Amp, 6EA8 2nd Mixer/Crystal Osc, 6BA6 50 kHz IF Amp, 6BE6 BFO/Product Detector, 6BN8 AVC Amp/AVC Rect/AM Detector, 6GW8 1st AF Amp/Audio Out, 5Y3 Rectifier and 0A2 Voltage Regulator. Product detector for SSB/CW and envelope detector for AM.

Accessories:

R-47 Speaker R-50 Speaker HA-7 Calibrator 100 kHz
 R-51 Speaker/Clock

Comments:

Ranges: .538-1.58, 1.72-4.9, 4.6-13 and 12-34 MHz. ¹ Reception gap from 1580-1720 kHz. Mounting hole for SO-239.

Variants:

Model SX-122A introduced in 1969 at \$395. Same appearance and tube complement.

Made In: United States 1964-1968

Voltages: 105/125 VAC 50/60 Hz
 85W

Readout: Analog

Physical: 18.75x8x9.75" 29 Lbs.
 476x203x248mm 13.2 kg

Status: Inactive Manufacturer
 Inactive Model

Rarity: Common

Reviews: QST August 1970
 Popular Elec. Sept. 1969

	New	Used
Price:	\$290-295	\$130-190
Rating:	★★★★	⑦



SX-130

General Coverage Communications Receiver

Single Conversion Superheterodyne. 7 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- Bandspeed
- Product Det. SSB/CW
- RF Gain
- ANL
- BFO
- Antenna Trimmer
- Mute Terminals
- Crystal Phasing
- Dial Lamp
- Speaker Terminals

Specifications:

Coverage 535 - 31500 kHz¹ Modes AM/SSB-CW
 Selectivity Wide/Normal/Narrow IF 1650 kHz.
 Audio Out 2 W 3.2 ohms Antenna Input . Terminals 50-600 ohms

Circuit Complement:

6DC6 RF Amp, 6EA8 Mixer/Osc, 6EA8 1st IF Amp/Crystal Sel., 6BA6 2nd IF Amp, 6AL5 AM Detector/NL, 6BE6 BFO/Product Detector, 6GW8 AF Amp/Output and diode.

Accessories:

HA-7 Calibrator R-47 Speaker R-50 Speaker
 R-51 Speaker/Clock

Comments:

Ranges: .535-1.61, 1.725-4.7, 4.5-13 and 11.9-31.5 MHz. ¹ Reception gap from 1610-1725 kHz. Bandspeed ranges: 3.5-4, 7-7.4, 13.9-14.4, 20-22 and 26-30 MHz. Note that the bandspeed occupies the long horizontal dial and the main tuning occupies the smaller rotary dial.

Variants: Model S-129 is the same as the SX-130 less crystal filter, crystal phasing and S-Meter \$165.

Made In: United States 1966-1967

Voltages: 105-125 VAC 50/60 Hz
 48W

Readout: Analog

Physical: 18.875x8x9.75" 22 Lbs.
 479x203x248mm 11.3 kg

Status: Inactive Manufacturer
 Inactive Model

Rarity: Common

	New	Used
Price:	\$170-200	\$90-140
Rating:	★★★	⑦



SX-133

General Coverage Communications Receiver
Single Conversion Superheterodyne. 7 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Bandspread
- Product Det. SSB/CW
- RF Gain
- ANL
- BFO
- Antenna Trimmer
- Mute Terminals
- Crystal Phasing
- Dial Lamp
- Speaker Terminals

Specifications:

Coverage535 - 31500 kHz¹ Modes AM/LSB/USB-CW
Selectivity5/2.5/.5 kHz IF 1650 kHz.
Audio Out2 W 3.2 ohms Antenna Input . Terminals

Accessories:


R-47 Speaker R-50 Speaker HA-19 Calibrator 100 kHz
R-51 Speaker/Clock

Comments:

Main ranges: .535-1.61, 1.725-4.7, 4.5-13 and 11.9-31.5 MHz. ¹Reception gap from 1610-1725 kHz. Bandsread ranges: 3.5-4, 6.9-7.4, 13.5-14.4, 20-22, 26-30, 5.9-6.25, 9.45-9.8, 11.65-12 and 15.05-15.5 MHz. Note that the bandsread occupies the long horizontal dial and the main tuning occupies the smaller rotary dial. The bandsread of the the 49, 31, 25 and 19 meter bands makes this radio more attractive to the shortwave listener than the SX-130.

Made In: United States 1968-1972

Voltages: 117 VAC 50/60 Hz
48W

Readout:  Analog

Physical: 18.25x8x9.75" 31 Lbs.
464x203x248mm 14.1 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: *Popular Elec.* August 1970

	New	Used
Price:	\$250-350	\$90-160
Rating:	★★★★	⑦



SX-140

Amateur Band Communications Receiver
Single Conversion Superheterodyne. 5 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- Stand-by
- Calibrator 3500 kHz
- RF Gain
- ANL
- BFO
- Antenna Trimmer
- Mute Terminals
- Cal Reset
- 25:1 Tuning Ratio
- Speaker Terminals
- Dial Lamp

Specifications:

CoverageSee Comments. Modes AM/SSB-CW
IF 1650 kHz. Antenna Input . Terminals 50-75 ohms
Audio Out 3.2 ohms

Circuit Complement:

6AZ8 RF Amp/Crystal Cal, 6U8 Mixer/Osc, 6BA6 IF Amp, 6T8 AVC Detector/ANL/
1st Audio Amp, 6AW8A Audio Out/S-Meter plus 2 silicon rectifiers.

Comments:

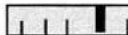
Ranges: 3.5-4, 7-7.3, 14-14.4, 21-21.5, 28-29.9 and 50-54 MHz. Matches the model HT-40 transmitter.

Variants:

Model **SX-140K** kit version sold for \$105-115. Reviewed in 73 November 1963.

Made In: United States 1960-1965

Voltages: 117 VAC 50/60 Hz
47W

Readout:  Analog

Physical: 13.4x7.4x8.25" 13.5 Lbs.
340x188x210mm 6.1 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: *QST* December 1961

	New	Used
Price:	\$95-140	\$60-75
Rating:	★★★★	⑦



SX-146

Amateur Band Communications Receiver

Single Conversion Superheterodyne. 9 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- AVC ON/OFF
- Preselector
- RF Gain
- ANL
- Mute Line
- Extl. Osc. Input
- BFO
- Fiduciary Adjust
- Flywheel Tuning
- Speaker Terminals

Specifications:

CoverageHam. See Comments
 Selectivity2.1/_/_ kHz
 Sensitivity<1µV 20 dB S/N
 Image Rej>50 dB
 Audio Out75 W 3.2 ohms 10% Dist.
 Modes AM/CW-LSB/USB
 Stability <500 Hz /hr after warmup
 IF 9 MHz
 Antenna Input . RCA 50-70 ohms

Circuit complement:

6JD6 RF Amp, 6GW8 Audio Amp & Output, 12AT7 Mixer, 6BA6 VFO, 6AU6A IF Amp, 6AU6 IF Amp, 6EA8 Osc & Premix, 12AT7 AM Detector/AVC Rectifier, 12AT7 USB/LSB Crystal Osc. and 6AU6A Calibrator.

Accessories:

49-321 .5 kHz Filter 49-319 5 kHz Filter
 R-50 Speaker R-51 Speaker/Clock HA-19 Calibrator 100 kHz

Comments:

Ranges: 3.5-4, 7-7.5, 14-14.5, 21-21.5, 28-28.5, 29-29.5¹ and 29.5-30¹ MHz. ¹This range requires optional crystal. Matches HT-46 transmitter. Requires a speaker.

Made In: United States 1966-1968

Voltages: 105-125 VAC 50/60 Hz
55W

Readout: Analog Lin

Physical: 13.125x5.875x11" 18 Lbs.
333x149x279mm 8.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: CQ June 1966
QST April 1966

	New	Used
Price:	\$250-295	\$140-180
Rating:	★★★★	⑦



WR-600G

General Coverage Communications Receiver

Single Conversion Superheterodyne. 4 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- BFO
- Speaker
- Bandsread 0-100
- Standby
- Dial Lamp
- Ferrite MW Antenna

Specifications:

Coverage550 - 30000 kHz
 IF455 kHz.
 Audio Out8 ohms
 Modes AM/CW
 Antenna Input . Terminals

Circuit Complement:

12BE6 Converter, 12BE6 IF Amp/BFO, 12AV6 Audio Amp/AVC, 50C5 Audio Power Amp plus 1 selenium rectifier.

Comments:

Ranges: .55-1.6, 1.6-4.4, 4.5-12 and 11-30 MHz. This radio has a gray case and it is virtually identical to the S-120.

Variants:

Model **WR-600W** has a simulated wooden cabinet and a lighter front panel.

Made In: United States 1962-1967

Voltages: 105-125 VAC 50/60 Hz

Readout: Analog

Physical: 13.5x6x8.3" 12 Lbs.
243x152x210mm 5.4 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$70	\$40-60
Rating:	★★★★	⑦



WR-1000



General Coverage Communications Receiver

Single Conversion Superheterodyne. 4 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- BFO
- Speaker 5"
- Bandsread 0-100
- Standby
- Dial Lamp
- Ferrite MW Antenna

Specifications:

Coverage 530 - 30000 kHz
 IF 455 kHz.
 Audio Out 8 ohms

Modes AM/SSB-CW
 Antenna Input . Terminals

Circuit Complement:

12BE6 Converter, 12BA6 IF Amp/BFO, 12AV6 Audio Amp/AVC, 50C5 Audio Power Amp plus 1 selenium rectifier.

Comments:

Ranges: .55-1.6, 1.6-4.4, 4.5-11 and 11-30 MHz. This radio has a wood case and is otherwise virtually identical to the S-120.

Made In: United States 1961-1962

Voltages: 105-125 VAC 50/60 Hz
30W

Readout:  Analog

Physical: 14.5x6.75x9" 11.75 Lbs.
368x171x229mm 5.3 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$70	\$40-60
Rating:	★★★★	⑦



WR-1500



General Coverage Communications Receiver

Single Conversion Superheterodyne. 5 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- BFO
- Speaker 4"
- Bandsread 0-100
- Standby
- Dial Lamp
- ANL
- Ferrite MW Antenna
- Sensitivity

Specifications:

Coverage 185 - 31000 kHz¹
 IF 455 kHz.
 Audio Out 8 ohms

Modes AM/CW-SSB
 Antenna Input . Terminals 52/600 ohms

Circuit Complement:

6BL8 Mixer/Osc, 12BA6 IF Amp, 6BL8 IF Amp/BFO, 6T8 1st Audio Detector/ANL/AVC, 6AQ5 Output plus 2 selenium rectifier.

Comments:

Ranges: .185-.42, .495-1.62, 1.6-4.95, 4.85-15 and 14.8-31 MHz. ¹Reception gap from 420-495 kHz. This radio is virtually identical to the S-118, except for having a wooden cabinet.

Made In: United States 1962

Voltages: 105-125 VAC 50/60 Hz
33W

Readout:  Analog

Physical: 14.5x6.75x9" 14.5 Lbs.
368x171x229mm 6.6 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$100	\$40-65
Rating:	★★★	⑦



WR-2000

Limited General Coverage Broadcast Receiver

Single Conversion Superheterodyne. 5 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- Tone
- FM Bdcst. Band
- Ferrite MW Antenna
- Speaker 5x7"
- AFC
- Dial Lamp
- MUX/Phono Jack
- Speaker Jack

Specifications:

Coverage See Comments. Modes AM
IF 455 kHz [10.7 MHz FM] Antenna Input . Terminals 50-600 ohm
Audio Out5W 8 ohms 3% dist.

Circuit Complement:

6BL8 AM Mixer/FM IF Amp/AM Osc, 6BA6 IF Amp, 6KL8 FM Limiter/AM Detector/
AVC, 6GW8A 1st Audio/Audio Out and 1N1764 diode.

Comments:

Ranges: .54-1.6, 2-6 and 6-18 MHz plus FM 88-108 MHz.

Made In: United States 1962

Voltages: 105-125 VAC 50/60 Hz
35W

Readout:  Analog

Physical: 14.5x6.5x9.25" 15.25 Lbs.
365x165x238mm 6.9 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	①	\$40-60
Rating:	★★★	⑦



WR-2500

General Coverage Broadcast Receiver

Single Conversion Superheterodyne. 5 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- Tone
- FM Bdcst. Band
- Ferrite MW Antenna
- Speaker 5x7"
- AFC
- Dial Lamp
- MUX/Phono Jack
- Speaker Jack

Specifications:

Coverage 540 - 18000 kHz +FM Modes AM
IF 455 kHz [10.7 MHz FM] Antenna Input . Terminals 50-600 ohm
Audio Out5W 8 ohms 3% dist.

Circuit Complement:

6BL8 AM Mixer/FM IF Amp/AM Osc, 6BA6 IF Amp, 6KL8 FM Limiter/AM Detector/
AVC, 6GW8A 1st Audio/Audio Out and 1N1764 diode.

Comments:

Ranges: .54-1.6, 2-6 and 6-18 MHz plus FM 88-108 MHz. This model is similar to
the WR-2000, but with a walnut veneer wood cabinet.

Made In: United States 1962

Voltages: 105-125 VAC 50/60 Hz
35W

Readout:  Analog

Physical: 15.5x7.32x9.25" 18 Lbs.
393x186x235mm 8.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	①	\$40-65
Rating:	★★★★	⑦

27 Hammarlund Mfg. Co.

The **Hammarlund Radio Company** was established in 1910. They produced some AM radios and components. Hammarlund got on the map with the introduction of the Comet and Comet Pro superheterodyne receivers in 1931. The famous (Comet) Super Pro followed. This would be the first in a series that would run over thirty years. The scope of this book picks up with the SP-400 Super Pro, followed by the famous SP-600 Super Pro still in active use today. Over forty SP-600 variants were produced by Hammarlund and other companies. Because of space limitations, not all are shown. Hammarlund is perhaps best known for their "HQ" series of affordable amateur and general coverage receivers. All resemble their original ancestor, the HQ-120, introduced in 1938. Unlike other manufacturers, Hammarlund made most of their own components, rather than using off the shelf components. Most agree that this and other reasons put Hammarlund ahead of its main competitor, Hallicrafters. Like Hallicrafters, Hammarlund ran into difficulties in the late 1960's.

In 1971 Cardwell Capacitor purchased the capacitor division of Hammarlund from the Electronic Assistance Corporation. Five years later Pax Manufacturing, which is owned by the same family as Cardwell acquired the remaining Hammarlund assets, mainly for military spare parts. Pax also has Gonset parts. Pax Mfg. did not manufacture any receivers under the Hammarlund name. They remain a source for Hammarlund parts.

Hammarlund Mfg. Co.

460 West 34th St.

New York 1, NY

1945-1959

Hammarlund Mfg. Co.

A Giannini Scientific Co.

53 West 23rd St.

New York 10, NY

1962-1966

Hammarlund Mfg. Co.

73-88 Hammarlund Dr.

Mars Hill, NC 28754

1968-1970

Hammarlund Mfg. Co.

Electronic Assistance Corp.

20 Bridge Av.

Red Bank, NJ 07701

1970-1971

Pax Mfg. Corp.

Hammarlund Radio Division

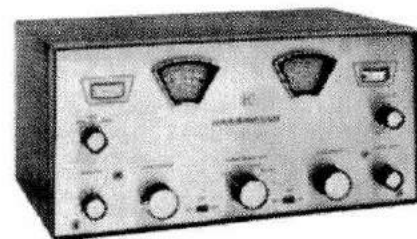
100 East Montauk Hwy.

Lindenhurst, NY 11757

1971-1997



HQ-66



General Coverage Communications Receiver

Single Conversion Superheterodyne. 10 Tubes.

Features:

- 1/4" Head. Jack
- S Meter
- ANL
- Bandsread
- RF Gain
- Standby

Specifications:

Coverage 540 - 30000 kHz

Modes AM/CW

Other specifications unavailable.


Comments:

Requires a speaker.

Although this receiver appeared in numerous (uninformative!) ads and product announcements, there is a real scarcity of this model on the used market. The author would like to hear from anyone who owns this model.

Made In: United States 1964

Voltages: 117 VAC 50-60 Hz

Readout:  Analog

Physical: ?

Status: Inactive Manufacturer
Inactive Model

Rarity: Extremely Scarce

Reviews: CQ November 1964

	New	Used
Price:	\$160	⑤
Rating:	⑥	⑥



HQ-88

Amateur Band Communications Receiver
Double Conversion Superheterodyne. Tubes.

Features:

- 1/4" Head. Jack
- S Meter
- Sensitivity
- Antenna Trimmer
- BFO
- Dial Cal Set
- NL
- Calibrator 100 kHz
- Q-Multiplier
- AVC FAST/SLOW
- Mute Contacts
- Speaker Terminals
- Preselector

Specifications:

CoverageHam bands. Modes AM/(CW-SSB)
Selectivity5/2.2 kHz -6dB. Stability ± 50 Hz after warmup
Sensitivity <.4 μ V 10 dB S/N SSB Image Rej >60 dB (45 dB on 10M)
I.F. 2, 262 kHz. Antenna Input . SO239
Audio 3.2/500 ohm

Circuit Complement:

Separate diode AM detector and SSB product detector. Single conversion below 3 MHz. Tuning is 20 kHz per revolution. Dial accuracy is ± 1 kHz.

Accessories:

S-88 Speaker

Comments:

Ranges: 1.8-2.4, 3.5-4.1, 6.9-7.5, 20.9-21.5 and 28.5-29.1 MHz. Optional ranges: 27.9-28.5, 29.1-29.6 and three extra 600 Hz crystal positions.

Made In: United States 1964-1966

Voltages: 115 VAC 50-60 Hz

Readout: Analog Lin.

Physical: 15x7.75x10.5" 16 Lbs.
381x197x267mm 7.3 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: CQ November 1964
How to Listen to W. 1965/66

	New	Used
Price:	\$299-325	②
Rating:	⑥	⑥



HQ-100

General Coverage Communications Receiver
Single Conversion Superheterodyne. 10 Tubes.

Features:

- 1/4" Head. Jack
- S Meter
- Sensitivity
- Antenna Trimmer
- Bandsread
- ANL
- AVC MAN/ON
- Speaker Terminals
- Q-Multiplier
- BFO ± 4 kHz

Specifications:

Coverage540 - 30000 kHz Modes AM/(CW-SSB)
Selectivity6kHz & var .1-3 kHz -6dB. I.F. 455 kHz
Sensitivity <1.75 μ V -10 dB S/N Antenna Input . Terminals 100 ohm
Audio 1W 3.2 ohms

Circuit Complement:

6BZ6 RF Amp, Mixer 6BE6, HF Osc 6C4, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6AL5 Detector/NL, 12AX7 1st AF Amp/Q-Multiplier/BFO, 6AQ5 Audio Out, 0B2 Regulator and 5Y3 Rectifier. The XC-455 option kit adds a 455 kHz crystal controlled BFO to the second detector. Permits CW reception with a variable bandwidth of 100 to 3000 kHz.

Accessories:

S-100 Speaker XC-100 Calibrator Clock/Timer (shown)
XC-455 BFO Kit

Comments: Ranges: .54-1.6, 1.6-4, 4-10 and 10-30 MHz. Requires a speaker. Shown with optional clock. [¥72,000].

Variants:

Model **HQ-100C (shown)** includes the clock. Model **HQ-100E** is export version.



Made In: United States 1956-1961

Voltages: 105-125 VAC 50-60 Hz
68 W

Readout: Analog

Physical: 16.25x9.5x9.2" 30 Lbs.
413x241x233mm 13.6 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST January 1957
CQ January 1958

	New	Used
Price:	\$169-189	\$70-100
Rating:	★★★	★★



HQ-100A

General Coverage Communications Receiver
Single Conversion Superheterodyne. 10 Tubes.

Features:

- 1/4" Head. Jack
- S Meter
- Sensitivity
- Antenna Trimmer
- BFO ± 4 kHz
- Bandspread
- ANL
- AVC MAN/ON
- Q-Multiplier
- Speaker Terminals

Specifications:

Coverage 540 - 30000 kHz Modes AM/(CW-SSB)
Selectivity 6kHz & var .1-3 kHz -6dB.
Sensitivity $<1.75\mu\text{V}$ -10 dB S/N I.F. 455 kHz
Audio 1W 3.2 ohms Antenna Input . Terminals 100 ohm

Circuit Complement:

6BZ6 RF Amp, Mixer 6BE6, HF Osc 6C4, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6BV8 Detector /NL/BFO, 12AX7 1st AF Amp/Q-Mult, 6AQ5 Audio Out, 0B2 Regulator and 5Y3 Rectifier.

Accessories:

S-100 Speaker XC-100 Calibrator Clock/Timer

Comments:

Similar to the HQ-100, but with a separate BFO built-in (note knob between tuning dials), and optional clock is 24 hour format. Ranges: .54-1.6, 1.6-4, 4-10 and 10-30 MHz. Requires a speaker.

Variants:

Model **HQ-100AC** (shown) includes the clock. Model **HQ-100AE** is export version.



Made In: United States 1961-1966

Voltages: 105-125 VAC 50-60 Hz
68 W

Readout: Analog

Physical: 16.25x9.5x9.2" 26 Lbs.
413x241x233mm 11.8 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST December 1961

	New	Used
Price:	\$190-200	\$80-120
Rating:	★★★★	★★



HQ-105TR

Amateur Band Communications Receiver / Transceiver
Single Conversion Superheterodyne. 11 Tubes.

Features:

- 1/4" Head. Jack
- S Meter
- Sensitivity
- Antenna Trimmer
- BFO ± 3 kHz
- NL
- AVC MAN/ON
- Speaker Terminals
- Q-Multiplier
- Mute Contacts
- 5W CB/10M Xmit
- Calibrator 100 kHz

Specifications:

Coverage Ham See Comments. Modes AM/(CW-SSB)
Selectivity 6 +Var. .3-2.9 kHz -6dB. I.F. 455 kHz
Sensitivity $<1.75\mu\text{V}$ -10 dB S/N Antenna Input . Phono Jack 50-600 ohms
Audio 1W 3.2 ohm

Circuit Complement: 6BZ6 RF Amp, 6BE6 Mixer, 6C4 HF Osc, 12AX7 Q-Mult/Preamp, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6BV8 Det/AVC/NL/BFO, 6BM8 Audio Out/1st AF Amp, 0B2 Volt Reg, 6CA4 Rectifier, 6CX8 Crystal Osc/RF Power Amp

Accessories:

S-100 Speaker XC-100 Calibrator 100 kHz Telechron Clock/Timer

Comments:

This radio may be more properly classified as a *transceiver* because it features a crystal controlled 5 watt CB (or 10 meter) transmitter in it. Crystal socket, headphone jack and 4 pin mic jack are on the rear panel of the radio. Requires a speaker.

Variants:

Model **HQ-105TR-C** (shown) includes the 24 hour analog clock. Model **HQ-105-TR-E** operates from 115-230 VAC 50-60 Hz. Model **HQ-105-TRS** features a speaker in place of the optional clock-timer.



Made In: United States 1961-1962

Voltages: 105-125 VAC 50-60 Hz
80 W

Readout: Analog

Physical: 16.5x9.5x9.25" 35 Lbs.
419x241x235mm 15.9 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: QST December 1961

	New	Used
Price:	\$220	\$150-180
Rating:	★★★★	★★



HQ-110

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 12 Tubes.

Features:

- 1/4" Head. Jack
- S Meter
- Sensitivity
- Antenna Trimmer
- BFO ± 4 kHz.
- Dial Cal Set
- NL
- Calibrator 100 kHz
- Q-Multiplier
- AVC MAN/ON
- Mute Contacts
- Speaker Terminals

Specifications:

CoverageHam. See Comments. Modes AM/(CW-SSB)
Selectivity6 +Var. .1-3 kHz -6dB. I.F. 3045, 455 kHz
Sensitivity<1.5 μ V 10 dB S/N Antenna Input . Terminals
Audio1W 3.2 ohm

Circuit Complement:

6BZ6 RF Amp, 6BE6 Mix, 6BE6 Conv, 12AX7 Q-Mult/1st AF Amp, 6BA6 1st IF Amp, 6AZ8 Lin Det/2nd IF Amp/BFO, 6BJ7 Det/NL/AVC, 6AQ5 AF Out, 6BZ6 Xtal Cal Osc, 6C4 HF Osc, 0B2 Reg, 5U4GB Rect. Single conversion below 7 MHz. There were production changes after serial number 7000 (7 caps, 2 coils and 1 resistor added).

Accessories:

S-100 Speaker 12 Hr. Clock/Timer

Comments: Ranges: 1.8-2, 3.5-4, 7-7.3, 14-14.4, 21-21.6, 28-30 and 50-54 MHz. Variable selectivity of .1 - 3 kHz provided by the Q-Multiplier. Both dials are controlled by the large left tuning knob. Requires a speaker.

Variants:

Model **HQ-110C** (shown) includes the 12 hour clock. The export model **HQ-100E** is 115-230VAC 50/60 Hz.



Made In: United States 1957-1962

Voltages: 105-125 VAC 50-60 Hz
80 W

Readout: Analog

Physical: 16.2x9.5x9.2" 30 Lbs.
411x241x233mm 13.6 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST August 1958
CQ September 1986

	New	Used
Price:	\$229-249	\$70-140
Rating:	★★★★	★★



HQ-110A

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 12 Tubes.

Features:

- 1/4" Head. Jack
- S Meter
- Sensitivity
- Antenna Trimmer
- BFO ± 4 kHz
- Dial Cal Set
- AVC MAN/ON
- Calibrator 100 kHz
- Q-Multiplier
- ANL
- Speaker Terminals

Specifications:

CoverageHam. See Comments. Modes AM/(CW-SSB)
Selectivity6 +Var. .1-3 kHz -6dB. Audio 1W
Sensitivity<7 μ V CW 10:1 S/N I.F. 3045, 455 kHz
Audio1W 3.2 ohms Antenna Input . Terminals

Circuit Complement:

6BZ6 RF Amp, 6BE6 Mixer, 6BE6 Converter, 12AX7 Q-Mult/1st AF Amp, 6BA6 1st IF Amp, 6AZ8 Lin Det/2nd IF Amp/BFO, 6BJ7 Det/NL/AVC, 6AQ5 AF Out, 6BZ6 Xtal Cal Osc, 6C4 HF Osc, 0B2 Reg, 5U4GB Rectifier. Single conversion below 7 MHz.

Accessories:

S-100 Speaker Clock/Timer 2 Meter Converter

Comments: Ranges: 1.8-2, 3.5-4, 7-7.3, 14-14.4, 21-21.6, 28-30 and 50-54 MHz. The "A" model has a dial that is precalibrated for the optional 2 meter converter, a 6 meter coax input and an accessory socket. Variable selectivity of .1 - 3 kHz is provided by the Q-Multiplier. Requires a speaker.

Variants: Model **HQ-110AC** includes the clock (shown). Model **HQ-110AE** is the 115-230VAC export version. Model **HQ-110A-VHF** includes a preamp for improved 6M reception and a 2M converter. Model **HQ-110AC-VHF** is the same with clock.



Made In: United States 1961-1967

Voltages: 117/230 VAC 50-60 Hz
68 W

Readout: Analog

Physical: 16.2x9.5x9.2" 30 Lbs.
411x241x233mm 13.6 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: 73 January 1967

	New	Used
Price:	\$189-249	\$80-170
Rating:	★★★★	★★



HQ-120-X

General Coverage Communications Receiver
Single Conversion Superheterodyne. 12 Tubes.

Features:

- 1/4" Head. Jack
- S Meter
- RF Gain
- Antenna Trimmer
- BFO
- Bandspread
- AVC OFF/ON
- Standby
- Relay Contacts
- Dial Lamp
- NL
- Speaker Terminals
- Carry Handles

Specifications:

Coverage 540 - 31000 kHz Modes AM/CW
Selectivity 6/4/2/1/.5 kHz -6dB. I.F. 455 kHz
Audio Out 4 W Aerial Input Terminals 400 ohm

Circuit Complement:

6S7 RF Amp, 6K8 Converter, 6S7 1st IF Amp, 6S7 2nd IF Amp, 6F6 3rd IF Amp, 6H6, 6H6 NL, 6J7 BFO, 6V6G Audio, 6SF5 Meter, VR150 Voltage Regulator and 5V4G Rectifier.

Accessories:

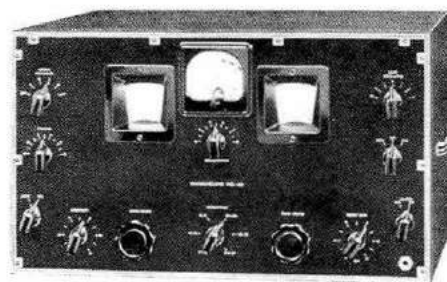
Speaker

Comments:

Ranges: .54-1.32, 1.32-3.2, 3.2-5.7, 5.7-10, 10-18 and 18-31 MHz. Bandspread: 80, 40, 20, 15 and 10 meters. Requires a speaker. Black front panel. A great medium wave performer. The early ancestor of the famous Hammarlund "HQ" series.

Variants:

Model **HQ-120** 1938 does not have crystal filter.



Made In: United States 1938-1945

Voltages: 105-125 VAC 50-60 Hz

Readout: Analog

Physical: ?

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST December 1941

	New	Used
Price:	\$129-215	\$50-95
Rating:	⑦	⑦



HQ-129-X

General Coverage Communications Receiver
Single Conversion Superheterodyne. 11 Tubes.

Features:

- 1/4" Head. Jack
- S Meter
- RF Gain
- Antenna Trimmer
- BFO
- Bandspread
- AVC OFF/ON
- Standby
- Relay Contacts
- Dial Lamp
- NL
- Speaker Terminals
- Flywheel Tuning

Specifications:

Coverage 540 - 31000 kHz Modes AM/CW
Audio Out 3 W 4 ohm I.F. 455 kHz
Aerial Input Terminals 400 ohm

Circuit Complement:

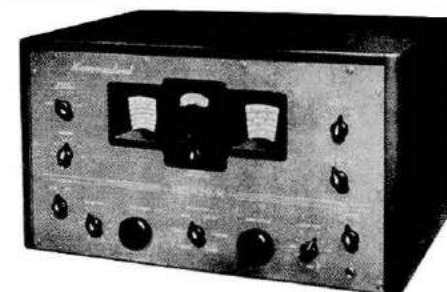
6SS7 RF Amp, 6K8 Converter 1st Detector Osc, 6SS7 1st IF Amp, 6SS7 2nd IF Amp, 6SS7 3rd IF Amp, 6H6 Detector/NL, 6SN7GT/G 1st Audio Amp/S-Meter, 6V6GT/G Audio Power Amp, 6SJ7 BFO, 5U4G Rectifier and 0C3 Regulator.

Accessories:

SC-10 Speaker FS-135-C Calibrator

Comments:

Ranges: .54-1.32, 1.32-3.2, 3.2-5.7, 5.7-10, 10-18 and 18-31 MHz. Bandspread: 80, 40, 20, 15 and 10 meters. Requires a speaker. This unit is often found with larger, user-supplied, tuning knobs. A great medium wave performer.



Made In: United States 1946-1953

Voltages: 105-125 VAC 50-60 Hz

Readout: Analog

Physical: 20.125x11x13.5" 47 Lbs.
511x279x343mm 21.3 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST June 1946

	New	Used
Price:	\$162-180	\$40-120
Rating:	★★★★★	★★★★



HQ-140-X

General Coverage Communications Receiver
Single Conversion Superheterodyne. 11 Tubes.



Features:

- 1/4" Head. Jack
- BFO ± 3 kHz
- Standby
- Carry Handles
- S Meter
- Bandsread
- NL
- Flywheel Tuning
- RF Gain
- AVC OFF/ON
- Mute Line
- Antenna Trimmer
- Speaker Terminals
- Dial Lamp

Specifications:

Coverage 540 - 31000 kHz
Selectivity 6 position
Audio Out 3.5 W 6 ohms
Modes AM/CW
I.F. 455 kHz
Antenna Input . Terminals 400 ohm

Circuit Complement:

6C4 Osc, 6BA6 RF Amp, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6BA6 3rd IF Amp, 6AL5 Detector/AVC/NL, 12AU7 1st AM Amp/BFO, 6V6GT/G Audio Power Amp, 0C3 Regulator and 5U4G Rectifier.

Accessories:

S-200 Speaker Rack Mounting Kit XC-100 Crystal Calibrator

Comments:

Ranges: .54-1.32, 1.32-3.2, 3.2-5.7, 5.7-10, 10-18 and 18-31 MHz. Bandsread: 80, 40, 20, 15 and 10 meters. Requires a speaker. Two tone gray metal cabinet.

Variants:

Model **HQ-140-XA** 1956 \$250 enhanced and has a square S-Meter instead of the round, giving the receiver a more modern appearance.

Made In: United States 1953-1956

Voltages: 105-125 VAC 50/60 Hz
100 W

Readout: Analog

Physical: 20.125x11x13.5" 47 Lbs.
511x279x343mm 21.3 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$265	\$60-140
Rating:	★★★★★	★★★★



HQ-145

General Coverage Communications Receiver
Double Conversion Superheterodyne. 11 Tubes.



Features:

- 1/4" Head. Jack
- Mute Line
- Dial Lamp
- Flywheel Tuning
- S Meter
- RF Gain
- BFO ± 2 kHz.
- Bandsread
- Antenna Trimmer
- ANL
- Slot Filter ± 5 kHz
- Speaker Terminals
- AVC OFF/SLO/MED/FST

Specifications:

Coverage 540 - 30000 kHz
Selectivity 6 Position
Sensitivity $< .6 \mu V$ -10 dB S/N CW
Sensitivity $< 1.75 \mu V$ -10 dB S/N AM
Image Rej > 25 dB at 22 MHz
Modes AM/LSB/USB/CW
I.F. 3035, 455 kHz
Audio Out 2.5 W 4 ohm 5% dist..
Antenna Input . Terminals 72 ohm

Circuit Complement: 6BZ6 RF Amp, 6BE6 1st Mixer, 6BE6 Converter/455 kHz IF Amp, 6BA6 455 kHz IF Amp, 6BA6 455 kHz IF Amp, 6AL5 Detector/NL, 12AX7 455 kHz BFO/Audio Amp, 6AQ5 Audio Power Output, 6C4 HF Oscillator, 0B2 Voltage Regulator, and 5U4GB Rectifier.

Accessories:

S-200 Speaker Clock/Timer XC-100 Crystal Calibrator

Comments: Ranges: .54-1.6, 1.6-4, 4-10, 10-30 MHz. Single conversion below 10 MHz. Requires a speaker. [¥103,000].

Variants: Model **HQ-145C** has built-in clock (shown). Model **HQ-145X** has a fixed crystal position (1961 \$269) *QST* December 1961. Model **HQ-145E** operates from 115/230 VAC 50/60 Hz.

Made In: United States 1959-1961

Voltages: 105-125 VAC 50/60 Hz
80 W

Readout: Analog

Physical: 19x10.5x13"
482x266x330mm

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: *QST* June 1959
QST December 1961
CQ May 1959

	New	Used
Price:	\$269-289	\$130-180
Rating:	★★★★★	★★★★



HQ-145A

General Coverage Communications Receiver

Double Conversion Superheterodyne. 10 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S Meter
- Hinged Cover
- Mute Line
- ANL
- RF Gain
- Slot Filter ± 5 kHz
- Antenna Trimmer
- Speaker Terminals
- Dial Lamp
- BFO ± 2 kHz.
- Bandsread
- AVC OFF/SLO/MED/FST
- Flywheel Tuning

Specifications:

Coverage 540 - 30000 kHz
 Selectivity 6 Position
 Sensitivity $< .6\mu V$ -10 dB S/N CW
 Image Rej > 25 dB at 22 MHz
 Audio Out 2.5 W 4 ohm 5% dist.

Modes AM/LSB/USB/CW
 I.F. 3035, 455 kHz
 Sensitivity $< 1.75\mu V$ -10 dB S/N AM
 Antenna Input . Terminals 72 ohm^A

Circuit Complement:

6BZ6 RF Amp, 6BE6 1st Mixer, 6BE6 Converter/455 kHz IF Amp, 6BA6 455 kHz IF Amp, 6BA6 455 kHz IF Amp, 6AL5 Detector/NL, 12AX7 455 kHz BFO/Audio Amp, 6AQ5 Audio Power Output, 6C4 HF Oscillator, 0B2 Voltage Regulator and (2) CER72C silicon diodes for rectification. Single conversion below 10 MHz.

Accessories:

S-200 Speaker 24 Hour Clock/Timer XC100 Crystal Calibrator

Comments: Ranges: .54-1.6, 1.6-4, 4-10 and 10-30 MHz. The newer "A" model adds a hinged cover and ^SO-239 hole. Requires a speaker.

Variants:

Model **HQ-145AX** has 11 fixed crystal positions. Model **HQ-145AC** has built-in clock.

Made In: United States 1966-1969

Voltages: 117 or 220/230 VAC
50/60 Hz

Readout: Analog

Physical: 19x10.5x13"
482x266x330mm

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$299	\$140-175
Rating:	★★★★★	★★★★



HQ-150

General Coverage Communications Receiver

Single Conversion Superheterodyne. 13 Tubes.



Features:

- 1/4" Head. Jack
- S Meter
- Q-Multiplier
- Antenna Trimmer
- RF Gain
- ANL
- AVC ON/MAN
- Calibrator 100 kHz
- BFO ± 2 kHz.
- Bandsread
- Mute contacts
- Speaker Terminals
- Dial Lamp
- Hinged Cover
- Flywheel Tuning

Specifications:

Coverage 540 - 31000 kHz
 Selectivity 6 Position
 Audio Out 2W

Modes AM/CW-SSB
 I.F. 455 kHz
 Antenna Input . Terminals 100 ohm

Circuit Complement:

6BA6 RF Amp, 6BE6 Mixer, 6C4 HF Osc, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6BA6 3rd IF Amp, 6AL5 Detector/AVC/NL, 12AX7 1st AF Amp/BFO, 6V6GT/G Audio Power Amp, 0C3 Voltage Regulator, 5U4GB Rectifier, 12AX7 Q-Multiplier and 6BZ6 Calibrator.

Accessories:

Speaker Rack Speaker Rack Mounting Kit

Comments:

Requires a speaker. Ranges: .54-1.32, 1.32-3.2, 3.2-5.7, 5.7-10, 10-18 and 18-31 MHz. Bandsread 80 to 10 meters. The HQ-150 features a true Q-Multiplier with both peak and reject. It has a very flexible filter system. Two toned gray metal cabinet.

Made In: United States 1956-1958

Voltages: 105-125 VAC 50/60 Hz

Readout: Analog

Physical: 20.125x11x13.5" 70 Lbs.
511x279x343mm 31.7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST December 1956

	New	Used
Price:	\$294-299	\$150-210
Rating:	★★★★★	★★★★



HQ-160

General Coverage Communications Receiver
Double Conversion Superheterodyne. 13 Tubes.



Features:

- 1/4" Head. Jack
- Sensitivity
- Standby
- Dial Lamps
- S Meter
- Slot Filter ± 5 kHz
- BFO
- Mute Line
- ANL
- Fiduciary Adj.
- Bandspread
- Flywheel Tuning
- Calibrator 100 kHz
- Speaker Terminals
- Antenna Trimmer

Specifications:

Coverage 540 - 31000 kHz
Selectivity 4/.1-2 kHz -6dB.
Sensitivity <1.5 μ V -10 dB S/N

Modes AM/CW-SSB
I.F. 3035, 455 kHz
Antenna Input . Terminals

Circuit Complement:

6BA6 RF Amp, 6BE6 Mixer, 6C4 HF Osc, 6BE6 Converter, 6BA6 IF, 6BA6 IF, 6BJ7 Det.Limiter/AVC, 12AU7 AF, 6U8 Detector/BFO, 6AQ5 Output, 6BZ6 Calibrator, 5U4 Rectifier and 0B2 Regulator. 14 Tuned circuits in IF, crystal controlled second oscillator.

Accessories:

S-200 Speaker

Comments:

Ranges: .54-1.32, 1.32-3.2, 3.2-5.7, 5.7-10, 10-18 and 18-31 MHz. Bandspread: 80, 40, 20, 15 and 10 Meters. Requires a speaker.

Made In: United States 1958-1960

Voltages: 105-125 VAC 50/60 Hz
100 W

Readout: Analog

Physical: 19x10.5x13"
482x266x330mm

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST October 1958
CQ March 1959

	New	Used
Price:	\$379	\$125-220
Rating:	★★★★	★★★★



HQ-170



Amateur Band Communications Receiver
Triple Conversion Superheterodyne. 17 Tubes.



Features:

- 1/4" Head. Jack
- BFO ± 2 kHz.
- Slot Filter
- Fiduciary Adj.
- S Meter
- Vernier ± 3 kHz.
- Mute Line
- Flywheel Tuning
- Sensitivity
- ANL
- Antenna Trimmer
- Speaker Terminals
- Calibrator 100 kHz
- AVC OFF/SLO/MED/FST

Specifications:

Coverage Ham. See Comments.
Selectivity 6/4/3/2/1.5 kHz
Sensitivity <.7 μ V -10 dB S/N CW
BFO Range ... ± 2 kHz.

Modes AM/(CW-SSB)
I.F. 3035, 455, 60 kHz
Audio 1W 3.2 ohms
Antenna Input . Terminals

Circuit Complement:

6BZ6 RF Amp, 6BE6 1st Mixer, 6BE6 Converter IF Amp, 6BA6 455 IF Amp, 6BE6 Converter, 6BA6 60 kHz IF Amp, 6BA6 60 kHz IF Amp, 6BV8 60 kHz IF Amp/AVC/AM Detector, 12AU7 SSB Product Detector, 6AL5 NL, 6BZ6 Crystal Cal Osc. 6C4 HF Osc, 12AU7 60 kHz BFO/S Meter, 0B2 Voltage Regulator, 5U4GB Rectifier, 6AV6 1st AF Amp/AVC and 6AQ5 AF Out. Double conversion under 7 MHz. Some circuit changes were implemented at serial number 3300 and again at 3900.

Accessories: S-200 Speaker Clock/Timer

Comments: Ranges: 1.8-2, 3.5-4, 7-7.3, 14-14.4, 21-21.6, 28-30 and 50-54 MHz. Requires a speaker.

Variants: Model HQ-170C (shown) includes the clock. Model HQ-170E is for export 115-230 VAC 50-60 Hz.

Made In: United States 1958-1962

Voltages: 105-125 VAC 50-60 Hz
120 W

Readout: Analog

Physical: 19x10.5x13" 45 Lbs.
482x266x330mm 20.4 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Abundant

Reviews: QST February 1959
CQ November 1958

	New	Used
Price:	\$359-379	\$80-190
Rating:	★★★★	★★



HQ-170A

Amateur Band Communications Receiver
Triple Conversion Superheterodyne. 16 Tubes.

Features:

- 1/4" Head. Jack
- S Meter
- Sensitivity
- Speaker Terminals
- BFO ± 2 kHz.
- Vernier Tuning
- Slot Filter ± 5 kHz.
- Calibrator 100 kHz
- ANL
- IF Out Jack
- Antenna Trimmer
- AVC OFF/SLO/MED/FST
- Flywheel Tuning
- Hinged Cover
- Fiduciary Adj.

Specifications:

Coverage Ham. See Comments. Modes AM/(CW-SSB)
Selectivity 6/4/3/2/1.5 kHz I.F. 3035, 455, 60 kHz
Sensitivity 7 μ V -10 dB S/N CW Audio 1W 3.2 ohms, 500 ohms
BFO Range ... ± 2 kHz. Antenna Input . Terminals, SO239 & phono¹

Circuit Complement: 6BZ6 RF Amp, 6BE6 1st Converter, 6C4 HF Osc., 6BE6 2nd Mix/Crystal Osc, 6BA6 455 IF Amp, 6BE6 3rd Mixer, 6BA6 60 kHz IF Amp, 6BA6 60 kHz IF Amp, 6BV8 60 kHz IF Amp/AVC/AM Det, 12AU7 SSB Prod Detector, 6AL5 NL, 12AU7 BFO/S Meter, 6AV6 1st AF Amp/AVC, 6AQ5 AF Out, 0B2 Voltage Regulator and 6BZ6 Crystal Calibrator

Accessories: S-200 Speaker 24 Hr. Clock/Timer

Comments: The A version features a dial scale for optional 2M Converter and hinged top trap door. Requires a speaker. Ranges: 1.8-2, 3.5-4, 7-7.3, 14-14.4, 21-21.6, 28-30 and 50-54 MHz. Double conversion under 7 MHz.

Variants: Model HQ-170A-RC is the rack mounted version. Model HQ-170A-VHF includes a 6 meter preamp and a 2 meter converter for reception from 144-148 MHz \$429. Model HA-170AC-VHF includes the clock as well.



Made In: United States 1963-1967

Voltages: 105-125 VAC 50-60 Hz
120 W

Readout: Analog

Physical: 19x10.5x13" 38 Lbs.
482x266x330mm 17.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Abundant

Reviews: 73 January 1967
73 August 1964

	New	Used
Price:	\$369-379	\$100-170
Rating:	★★★★	★★



HQ-180

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 18 Tubes.

Features:

- 1/4" Head. Jack
- S Meter
- Fiduciary Adjust
- Calibrator 100 kHz
- RF Gain
- Slot Filter ± 5 kHz
- Antenna Trimmer
- Vernier Tune ± 3 kHz
- Spkr. Terminals
- BFO ± 2 kHz.
- Bandspread
- AVC OFF/SLO/MED/FST
- Mute Line
- Flywheel Tuning
- ANL

Specifications:

Coverage 540 - 30000 kHz Modes AM/LSB/USB/CW
Selectivity 6/4/3/2/1.5 kHz -6dB. I.F. 3035, 455, 60 kHz
Sensitivity <7 μ V -10 dB S/N CW Image Rej >25 dB at 22 MHz
Audio Out 2.5 W 4 ohm 5% dist. Antenna Input . SO239 72 ohm

Circuit Complement:

6BZ6 RF Amp, 6BE6 1st Mixer, 6BE6 Converter, 6BA6 455 IF Amp, 6BE6 Converter, 6BA6 60 kHz IF Amp, 6BA6 60 kHz IF Amp, 6BV8 60 kHz IF Amp/AVC/AM Detector, 12AU7 SSB Product Detector, 6AL5 NL, 6BZ6 Crystal Cal, 6C4 HF Osc, 12AU7 60 kHz BFO/S Meter, 0A2 Voltage Regulator, 5U4GB Rectifier, 6AV6 1st AF Amp/AVC, 6AQ5 AF Outout and 6BA6 455 kHz Gate. Double conversion below 7.85 MHz.

Accessories: S-200 Speaker 24 Hour Clock/Timer Noise Silencer

Comments: Ranges: .54-1.05, 1.05-2.05, 2.05-4.04, 4-7.85, 7.85-15.35 and 15.35-30 MHz. Bandspread: 3.44-4.04, 6.81-7.3, 13.98-14.425, 20.925-21.6 and 27.89-29.7 MHz. Requires a speaker. An outstanding tube radio. [¥70,000]

Variants: Model HQ-180C (shown) has clock. Model HQ-180RC is the rack version with clock. Model HQ-180XE has 11 fixed crystal positions and adds 230 VAC.



Made In: United States 1959-1962

Voltages: 105-125 VAC 50/60 Hz
120 W

Readout: Analog

Physical: 19x10.5x13" 38 Lbs.
482x266x330mm 17.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST June 1960
CQ April 1960
QST July 1960
NASWA July 1995

	New	Used
Price:	\$429	\$180-300
Rating:	★★★★★	★★★★



HQ-180A

General Coverage Communications Receiver

Triple Conversion Superheterodyne. 17 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S Meter
- Slot Filter ± 5 kHz
- Speaker Terminals
- RF Gain
- Bandsread
- Antenna Trimmer
- Vernier Tune ± 3 kHz
- ANL
- BFO ± 2 kHz
- Calibrator 100 kHz
- AVC OFF/SLO/MED/FST
- Mute Line
- Fiduciary Adjust
- Flywheel Tuning

Specifications:

Coverage540 - 30000 kHz
 Selectivity6/4/3/2/1/1.5 kHz -6dB.
 Sensitivity<.8 μ V -10 dB S/N CW/SSB
 Audio Out2.5 W 4 ohm 5% dist.
 Modes AM/LSB/USB/CW
 Image Rej >25 dB at 22 MHz
 I.F. 3035, 455, 60 kHz
 Antenna Input . SO239 and Terminals

Circuit Complement: Very similar to the HQ-180 except the 5U4GB has been replaced by two silicon rectifiers. Double conversion below 7.85 MHz.

Accessories: S-200 Speaker 24 Hour Clock/Timer

Comments: Ranges: .54-1.05, 1.05-2.05, 2.05-4.04, 4-7.85, 7.85-15.35 and 15.35-30 MHz. This newer "A" model features a solid state PS, 230 VAC, 3 position BFO, accessory socket, less drift and 500 ohm line output. Requires a speaker. An excellent receiver.

Variants: Model HQ-180AC (shown) has the clock timer built-in. Model HQ-180ARC is rack and clock. Model HQ-180AR was rack mounted version. Export model HQ-180AE operates from 117 or 230 VAC 50 or 60 Hz. Model HQ-180AX accepts 11 fixed crystals (6 can be changed from the front) \$625. (Note that the X models cannot have the clock). Model HQ-180AXR same but rack mounted \$675.

Made In: United States 1963-1972

Voltages: 105-125 VAC 50/60 Hz
120 W

Readout: Analog

Physical: 19x10.5x13" 38 Lbs.
482x266x330mm 17.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: 73 January 1967
Pop. Elec. February 1964

	New	Used
Price:	\$439-575	\$200-330
Rating:	★★★★★	★★★★



HQ-200

General Coverage Communications Receiver

Single Conversion Superheterodyne. 8 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S Meter
- NL
- Dial Lamp
- RF Gain
- Q-Multiplier
- Antenna Trimmer
- AVC OFF/ON
- Standby
- BFO ± 2 kHz
- Bandsread
- Speaker Terminals

Specifications:

Coverage540 - 30000 kHz
 Selectivity1-12 kHz Variable
 Sensitivity<.5 μ V 10 dB S/N CW
 Audio Out2.5 W 4 ohm 5% dist.
 Modes AM/CW/SSB
 IF 455 kHz
 Antenna Input . Terminals 30-100 ohm

Circuit Complement:

6BZ6 RF Amp, 6BE6 Mixer, 6C4 HF Osc, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6BE6 Product Detector/BFO, 12AX7 1st AF Amp, 6AQ5 Audio Power Out, Zener Voltage Regulator, (2) CER72C Rectifier, 1N34A AM Detector and 1N541A NL.

Accessories:

S-101 Speaker XC-100 Calibrator 100 kHz

Comments:

Ranges: .54-16, 1.6-4, 4-10 and 10-30 MHz. The built-in Q-Multiplier provides continuously variable selectivity from .1 to 12 kHz. The headphone jack is on the back of the radio. Although not a great performer, this radio is becoming a collector's item due to limited production.

Made In: United States 1968-1972

Voltages: 117/230 VAC 50-60 Hz
50W

Readout: Analog

Physical: 16.5x9x9.2" 22 Lbs.
419x2229x233mm 10 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: Pop. Elec. September 1969

	New	Used
Price:	\$229-338	\$150-250
Rating:	★★★	★★



HQ-215

Amateur Band Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- BFO ± 3 kHz
- Standby
- Fiduciary Adjust
- S-Meter
- Dimmer
- Dial Adjust
- Speaker Jack
- HF Osc. Jack
- NL
- Preselector
- Mute
- VFO Output Jack
- Line Out Jack
- Calibrator 100 kHz
- AGC SLOW/FAST
- IF Notch
- Crystal HFO Output

Specifications:

Coverage See Comments. Modes AM/CW/LSB/USB
Selectivity 2.1/ / kHz -6 dB Stability <100 Hz per hour
Sensitivity <.5 μ V -10 dB S/N CW Image Reject. . > 50 dB
Audio Out 1.5 W 3.2 ohm 10% dist. IF 3055, 455 kHz
Environment .. 0° to +50° C Antenna Input . SO239 50-75 ohms

Circuit Complement:

26 transistors, 13 diodes and 2 zeners.

Accessories:

.5 kHz Filter 6 kHz Filter S-215 Speaker

Comments: Ranges: 3.4-4, 7-7.4, 14-14.4, 21-21.6 and 28.5-28.7 MHz plus 13 optional 200 Hz positions. Dial accuracy is ± 100 Hz. Main dial yields 10 kHz per revolution. The supplied 2.1 kHz bandwidth is a Collins mechanical filter. Closed-out in late 1970 at \$295. Collectable.

Variants: Model **HQ-215 MK II** 1969-1970. Model **HQ-225** was an announced SWL version with SWL bands and 6 kHz filter as standard. Reportedly was not produced.

Made In: United States 1968-1969

Voltages: 117/234 VAC 50-60 Hz
19W or 12 VDC 460 ma

Readout:  Analog Lin.

Physical: 15.8x6.8x14" 18 Lbs.
401x173x355mm 8.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: QST December 1968
CQ October 1968

	New	Used
Price:	\$530	\$300-400
Rating:	★★★★	★★★★



PRO-310

General Coverage Communications Receiver
Double Conversion Superheterodyne. 14 Tubes.



Features:

- 1/4" Head. Jack
- Sensitivity
- Standby
- IF Out Jack
- S Meter
- ANL
- AGC
- Spinner Knobs
- Bandsread
- BFO
- Phono Input Jack
- Speaker Terminals
- Antenna Trimmer
- Calibrator 100 kHz.

Specifications:

Coverage 550 - 35520 kHz Modes AM/CW-SSB
Selectivity 4/2.5 kHz -6dB Image Rej >70 db (2.2-17.6 MHz)
Sensitivity <1 μ V -10 dB S/N CW I.F. 1802, 52 kHz
Audio Out 2 W 6 ohm Antenna Input . RF Jack 75-300 ohm

Circuit Complement: 6BA6 RF Amp, 6BZ6 1st IF Amp, 6AN8 BFO/Buffer, 6BE6 1st Mixer, 6BZ6 2nd IF Amp, 6V6GT/G Audio Power Out, 6C4 Osc, 6AL5 Detector/Limiter, 5U4GB Rectifier, 6BE6 2nd Mixer, 12AX7 1st AF Amp, 6AL5 Bias Rectifier, 6C4 2nd Crystal/AGC and 0B2 Voltage Regulator. Single conversion below 2.2 MHz. Has five tuned circuits. Turret type band display.

Accessories:

Gray/Silver Speaker Black/Gold Speaker Rack Mounting Kit
Gray/Silver Rack Speaker Black/Gold Rack Speaker

Comments:

Ranges: .55-1.11, 1.1-2.22, 2.2-4.44, 4.4-8.88, 8.8-17.76 and 17.6-35.52 MHz. Requires a speaker. A somewhat radical design for the time. Cabinet available in gray and silver or black and gold. Reportedly only 1000 made. Very collectable.

Made In: United States 1955-1957

Voltages: 105-125 VAC 50-60 Hz
110 W

Readout:  Analog

Physical: 18x17.875x15.5" 65 Lbs.
457x454x394mm 29.4 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: QST April 1956
QST May 1956

	New	Used
Price:	\$595	\$550-1000A
Rating:	★★★★★	★★★★



SP-400-X Super-Pro

General Coverage Communications Receiver
Single Conversion Superheterodyne. 18 Tubes.

Features:

- 1/4" Head. Jack
- S Meter
- Bandspeed
- Speaker Terminals
- Sensitivity
- ANL
- BFO
- Phono Terminals
- Standby
- Dial Lamp
- AVC

Specifications:

Coverage 540 - 30000 kHz Modes AM/CW
Selectivity 6/4/2/1.5 kHz -6dB. I.F. 455 kHz
Audio Out 8 W 500 ohm 10% dist. Antenna Input . Terminals

Circuit Complement:

6K7 1st RF Amp, 6K7 2nd RF Amp, 6L7 1st Detector/Mixer, 6J7 HF Osc, 6K7 1st IF Amp, 6SK7 2nd IF Amp, 6SK7 3rd IF Amp, 6H6 2nd Detector, 6N7 NL, 6SJ7 BFO, 6SK7 AVC Amp, 6H6 AVC Rectifier, 6J5 1st AF Amp, 6F6 2nd AF Amp, 6F6 3rd AF Amp, 6F6 3rd AF Amp, 5U4G High Voltage Rectifier and 5Y3GT/G C-Bias Rectifier.

Accessories: SC-46 Speaker

Comments:

Ranges: .54-1.24, 1.24-2.86, 2.85-6.3, 6.3-14 and 13.4-30 MHz. Supplied with external AC power supply and interconnecting cable. The power supply is separate and is approximately 13.6x7.62x8.62" 28 Lbs. For battery operation use: quantity five 45V "B", one "A" and one "C". Requires a speaker.

Variants:

Model **SPR-400-X** is a rack version. Model **SP-400-SX** covers: 1.25-40 MHz \$399. Model **BC-779B** is a military version.



Made In: United States 1946-1948

Voltages: 105-125 VAC 50-60 Hz
180 W or batteries.

Readout: Analog

Physical: Cabinet Version:
21.5x12.25x15.25" 67 Lbs.
546x311x387mm 30.3 kg
Rack Version:
19x10.6x14.7" 49 Lbs.
483x269x373mm 22.3 Lbs.

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$340-385	\$160-270
Rating:	★★★★★	★★★★



SP-600-JX Super-Pro 600

R274A/B/C R320A R542 R620

General Coverage Communications Receiver
Dual Conversion Superheterodyne. 20 Tubes.

Features:

- 1/4" Head. Jack
- S/AF Meter
- IF Output Jack
- AVC ON/MAN
- RF Gain
- Standby
- Tune Lock
- 6 Fixed Positions
- ANL
- BFO ± 3 kHz
- Internal P.S.
- Flywheel Tuning

Specifications:

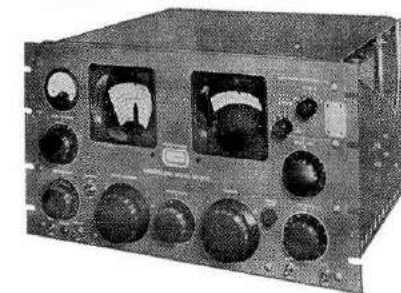
Coverage 540 - 54000 kHz Modes AM/CW
Selectivity 13/8/3/1.3/5/2 kHz -6dB. Image Rej >80 to 100 dB 15 min.
Sensitivity <.75 μ V -10 dB S/N CW Drift001% to .01%
Audio Out 2 W 600 ohm Antenna Input . UG-103 72 ohm

Circuit Complement: (2) 6BA6 RF Amp, 6AC7 FFO, 6C4 VFO, (2) 6BE6 Mix, 6BA6 Gate, 6C4 FFO, (2) 6BA6 IF Amp, 6BA6 Driver, 6BA6 Buf, 6C4 BFO, 6AL5 Det./AVC, 6AL5 Lim/Meter, 12AU7 IF Out/AF Amp, 6V6GT Output, 0A2 Reg., 5R4GY Rect. and 6AL5 Rect. Single conv. under 7.4 MHz. Four IF and two RF stages.

Accessories: SP-300 Speaker SPC-10 SSB Converter

Comments: Ranges: .54-1.35, 1.35-3.45, 3.45-7.4, 7.4-14.8, 14.8-29.7 and 29.7-54 MHz. Built-in power supply. The single knob tuning is also geared to the logging scale. This extraordinary receiver had a long and illustrious career. [¥120,000].

Variants: **SP-600-J** has no fixed positions. **SP-600-JLX-2,15, 23** cover .1-.4, 1.35-29.7 MHz. **SP-600-JX-17, 30** are diversity. **SP-600-VLF-31, 38** is only 10-540 kHz. **SP-600-JX-21A** has 22 tubes, SSB. **SP-600-JLX-27** covers .2-.4, .54-29.7 MHz. **SP-600-JX-28** is R-620. **SP-600-JX-6** is R-274B. **SP-600-JX-12** is R-274A. **SP-600-JX-29** for CIA. **SP-600-JX-39** for FAA. "J" suffix stands for joint Army-Navy standards.



Made In: United States 1951-1972

Voltages: 95/105/117/130/210/234/260
VAC 130 W 50-60 Hz

Readout: Analog

Physical: Cabinet Version:
21.5x12.75x17.25" 87 Lbs.
546x324x438mm 39.4 kg
Rack Version:
19x10.5x17.25" 66 Lbs.
482x266x438mm 30 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$985-1140	\$190-450
Rating:	★★★★★	★★★★

28 Harvey Wells

The **Harvey-Wells Electronics** company was established in 1939 by Cliff Harvey (of *Harvey Radio* fame) and John Wells. The company produced amateur transmitters, tuners, power supplies and receivers. The harvey-Wells factory was flooded two successive summers, possibly contributing to the company's demise.

A modest number of R-9 and R-9A receivers were produced. They are sometimes sold in conjunction with the matching T-90 transmitter. They trade at modest prices now, but will likely go up in value as collector items.

Harvey-Wells Electronics, Inc.
Southbridge, Mass. 1955



R-9



Amateur Band Communications Receiver
Double Conversion Superheterodyne. 10 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- AVC
- Mute
- RF Gain
- ANL
- Standby
- Dial Lamp

Specifications:

- Coverage Ham. See Comments
- Selectivity 4 kHz -6dB.
- Sensitivity <2μV 10 dB S/N
- Audio Out 5W 3.2/600 ohms
- Modes AM/CW
- Image Rej >25 dB
- IF 1600, 260 kHz.
- Ant. Jack Phono Jack 50 ohms

Accessories:

- FS-1 Speaker
- VPS-R9 6/12 VDC PS
- MS-1 Mobile Speaker

Circuit Complement:

6BJ6 RF Amp, 6U8 Mixer/Osc, 0A2 Regulator, 6U8 2nd Mixer/Osc, (2) 6BJ6 IF Amp, 6AL5 Detector/ANL, 12AX7 1st Audio/BFO, 6CM6 Audio Output and 5Y3GT Rectifier. The circuit consists of one stage of RF amplification, a first detector and stabilized high frequency variable oscillator. This is followed by a second detector and a second high frequency (fixed) oscillator providing dual conversion on all bands.

Comments:

Ranges: 3.5-4, 7-7.3, 14-14.4, 21-21.45 and 26.96-30 MHz. Matches the T-90 Transmitter. Designed for mobile or base operation.

Variants:

Model **R-9A** 1958 \$160. This model was closed-out for \$90 in December of 1958.

Mfg. In: United States 1954-1956

Voltages: 100/120 VAC 50/60 Hz
70 W

Readout:  Analog

Physical: 12.375x6.75x10.5" 18 Lbs.
314x171x267mm 8.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$150	\$80-130
Rating:	★★★★	⑦

The fascinating story of Heath has been told many times on the inside cover of Heathkit catalogs. Edward Bayard Heath founded the Heath Aeroplane Company during the early 1900s. The first Heath "kit" was in fact an airplane introduced in 1926. In 1931 the founder was killed in a flight test. Heath remained an aircraft and aircraft parts company through World War II.

Howard E. Anthony, who had purchased Heath in 1935 gave it a different direction after the war. With surplus electronic parts, he marketed an oscilloscope kit for \$39.50. A line of test instruments, amateur radios and hi-fi equipment kits followed.

Howard Anthony also died in a plane crash in 1954. Daystrom Inc. then acquired the Heath Company. In 1962 Daystrom was purchased by Schlumberger Limited, a leader in the development of electronic techniques for oil exploration.

Zenith purchased Heath from Schlumberger in 1979. They were interested in Heath's computer production capacity more than amateur radio gear. Budget cuts, difficulties with new models and increased off-shore competition led to increased problems in the mid 1980s. In the late 80's and early 90's the amateur radio segment consisted primarily of assembled, private labeled equipment from Standard, Yaesu and Ameritron. Heath now focuses on educational videos and workbooks and is not in the radio market.

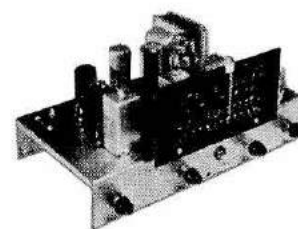
Heath Company

Benton Harbor, MI

1945-1961

The HEATH COMPANY

AR-1



General Coverage Broadcast Receiver Kit

Single Conversion Superheterodyne. Six Tubes.

Features:

- RF Gain
- Tone
- Standby
- Phono/Radio Switch
- Mute
- Phono Input Jack

Specifications:

Coverage 550 - 20000 kHz Modes AM
 Audio Out 8 ohms IF 455 kHz
 Sensitivity 15 μ V Antenna Input . Terminal 50 ohm

Accessories:

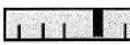
Cabinet

Comments:

Ranges: .55-1.6, 1.7-5.5, 6-20 and 20-35 MHz. Does not have a dial lamp. Matches the AT-1 Transmitter. Similar AR-2 shown in optional cabinet. Requires a speaker. May be modified for CW. See QST May 1953.

Mfg. In: United States 1949-1953

Voltages: 105-125 VAC
 50/60 Hz 40W

Readout:  Analog

Physical: 11.5x5.75x6.75" 11 Lbs.
 292x146x171mm 5.5 kg

Status: Inactive Manufacturer
 Inactive Model

Rarity: Very Scarce

	New	Used
Price:	\$23 Kit	\$30-50
Rating:	⑨	⑨



AR-2

General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. Six Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- AVC
- BFO
- Mute
- NL
- Standby
- Speaker 5.5"
- Bandsread 0-100
- Accessory Socket

Specifications:

Coverage550 - 35000 kHz Modes AM/CW
Audio Out8 ohms Antenna Input . Terminal 50 ohm
IF455 kHz

Circuit Complement:

12BE6 Osc & Mixer, 12BA6 IF Amp, 12AV6 2nd Detector/AVC/1st Audio Amp/Reflex BFO, 12A6 Beam Power Output and 5Y3 Rectifier.

Accessories:

QFQ-1 Q Multiplier 91-10 Cabinet (shown)

Comments:

Ranges: .55-1.5, 1.5-3.9, 3.9-10.5, 10.5-35 MHz. Does not have a dial lamp. Matches the AT-1 Transmitter. The headphone jack is on the rear panel. Shown in optional cabinet.

Mfg. In: United States 1954-1957

Voltages: 105-125 VAC
50/60 Hz 45W

Readout:  Analog

Physical: 11.5.x5.75x6.75" 12 Lbs.
292x146x171mm 5.5 kg

Status: Inactive Manufacturer
Inactive Model

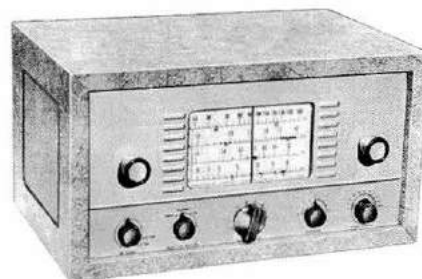
Rarity: Scarce

	New	Used
Price:	\$25 Kit	\$30-35
Rating:	⑨	⑨



AR-3

General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. Five Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- Standby
- AVC
- BFO
- Mute
- Q-Mult. Jack
- Dial Lamp
- Speaker 5.25"
- NL
- Bandsread
- Antenna Trimmer
- Accessory Socket

Specifications:

Coverage550 - 30000 kHz Modes AM/CW
Audio Out8 ohms Antenna Input . Terminal 50 ohm

Circuit Complement:

12BE6 Osc & Mixer, 12BA6 IF Amp, 12AV6 2nd Detector/AVC/1st Audio Amp/Reflex BFO, 12A6 Beam Power Output and 5Y3 Rectifier.

Accessories:

QFQ-1 Q Multiplier 91-15A Cabinet (shown)

Comments:

Ranges: .55-1.5, 1.5-4.5, 4.5-10, 10-30 MHz. Similar to the AR-2. The headphone jack is on the rear panel. The rear panel of the AR-3 adds a Q-Multiplier jack and an Accessory jack. Shown in optional cabinet.

Mfg. In: United States 1956-1960
40W

Voltages: 105-125 VAC
50/60 Hz 40W

Readout:  Analog

Physical: 11.5.x5.75x6.75" 12 Lbs.
292x146x171mm 5.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$30 Kit	\$30-35
Rating:	⑨	⑨



GC-1A Mohican

General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- Telescopic Antenna
- RF Gain
- ANL
- Carry Handle
- Bandspread
- Mute Line
- Speaker
- Dial Lamp
- Dial Lamp Switch
- Standby
- BFO
- Flywheel Tuning
- AVC ON/OFF

Specifications:

Coverage 550 - 32000 kHz
Selectivity 3 kHz -6dB.
IF 455 kHz.
Modes AM/CW-SSB
Sensitivity <1 μ V CW 10 dB S/N
Antenna Input . Terminals 50 ohm

Circuit Complement:

The GC-1A was one of the first fully transistorized shortwave receivers. It incorporates 10 transistors and 6 diodes. The filter is a ceramic Clevite. The GC-1A uses printed circuits and conventionally wired boards.

Accessories:

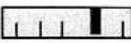
XP-2 117 VAC Power Supply

Comments: This receiver is properly classified as a portable or at least a "porta-top". Green metal case with carry handle. The telescopic whip is 54" long. Ranges: .55-1.6, 1.6-4, 4-9, 9-20 and 20-32 MHz. Bandspread: 3.5-4, 7-7.3, 14-14.35, 21-21.4 and 26-29.7 MHz. The dial lamp switch is spring loaded. The headphone jack is on the rear panel. Its reported performance was poor. It is becoming a collector's item however.

Variants: Model GCW-1A was wired version \$193 new.

Mfg. In: United States 1960-1962

Voltages: 8 C cells or 12 VDC 50 ma
or AC via optional XP-2 PS.

Readout:  Analog

Physical: 12x7x10" 18 Lbs.
305x275x254mm 8.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

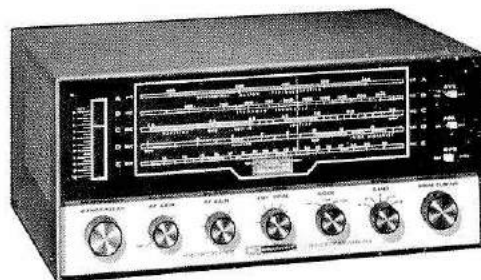
Reviews: QST December 1960
73 October 1960

	New	Used
Price:	\$110 Kit	\$50-70
Rating:	⑨	⑨



GR-54

General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. Six Tubes plus Semiconductors.



Features:

- Spkr/Head. Jack
- S-Meter
- Antenna Trimmer
- Ferrite MW Antenna
- RF Gain
- ANL
- Morse Key Input
- Bandspread 0-10
- Mute
- Speaker 4x6"
- Standby
- AVC ON/OFF

Specifications:

Coverage See Comments
Selectivity 3 kHz -6dB.
IF 1682 kHz.
Audio Out 8 ohms
Modes AM/LSB/USB
Sensitivity <.4-4 μ V CW
Antenna Input . Terminals

Circuit Complement:

6BH6 RF Amp, 6EA8 Osc Mixer, 6BA6 IF Amp, 6BA6 IF Amp, 12AT7 BFO Product Detector, 6HF8 AF Amp and diodes.

Comments:


Ranges: .18-.42, .55-1.55, 2-5, 5-12.5 and 12.5-30 MHz.

Variants:

An export model was also available for 115/230 VAC 50-60 Hz operation.

Mfg. In: United States 1966-1971

Voltages: 120/240 VAC
50/60 Hz 45W

Readout:  Analog

Physical: 14.58.x6.5x11" 24 Lbs.
370x160x280mm 8.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: 73 November 1966

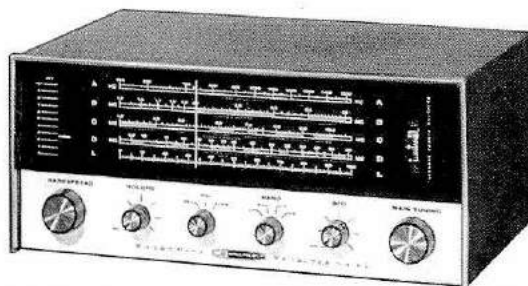
	New	Used
Price:	\$85-135 Kit	\$40-50
Rating:	⑨	⑨



GR-64

General Coverage Communications Receiver Kit

Single Conversion Superheterodyne. Four Tubes plus Semiconductors.



Features:

- Spkr/Head. Jack
- S-Meter
- RF Gain
- ANL
- Mute
- Speaker 5"
- Antenna Trimmer
- Ferrite MW Antenna
- Morse Key Input
- Bandspread 0-10
- Standby
- Dial Lamp

Specifications:

Coverage 550 - 30000 kHz
IF 455 kHz.

Modes AM/CW-SSB
Antenna Input . Terminals 50 ohm

Circuit Complement:

12BE6 Osc/Mixer, 12BA6 IF Amp/BFO, 12AV6 Detector/Audio Amp, 12AQ5 Audio Output and diodes.

Comments:


Ranges: .55-1.5, 1.5-4, 4-10 and 9.5-30 MHz.

Variants:

An export model was also available for 115/230 VAC 50-60 Hz operation.

Mfg. In: United States 1964-1971

Voltages: 105-120 VAC
50/60 Hz 30W

Readout:  Analog

Physical: 13.5x6x9" 11.5 Lbs.
342x152x228mm 5.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: 73 March 1965

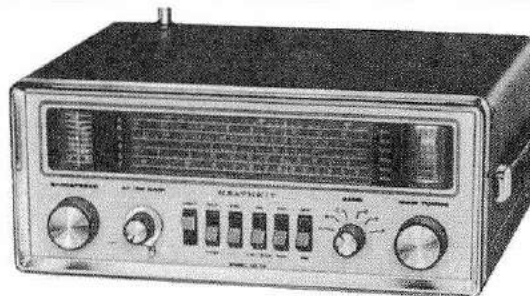
	New	Used
Price:	\$38-43 Kit	\$25-40
Rating:	⑨	⑨



GR-78

General Coverage Communications Receiver Kit

Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- RF Gain
- ANL
- Mute
- Speaker
- Dial Lamp
- Telescopic Whip
- Bandspread
- Carry Handle
- Standby
- Ferrite MW Antenna
- Calibrator 500 kHz
- AVC ON/OFF

Specifications:

Coverage See Comments
Selectivity 7.5 kHz -6dB.
Sensitivity <2 to 10 μ V
Audio Out 8 ohms

Modes AM/CW-SSB
IF 4034 kHz, 455 kHz.
Antenna Input . Terminals 50 ohm

Circuit Complement:


11 Transistors, 5 FETs and 7 diodes. Single conversion below 18 MHz.

Comments:

Ranges: .19-.41, .55-1.3, 1.3-3, 3-7.5, 7.5-18 and 18-30 MHz. Configured for portable operation.

Mfg. In: United States 1970-1977

Voltages: 120 VAC 50/60 Hz or
Internal Nicad 9.6 VDC

Readout:  Analog

Physical: 11.5x6.25x9" 14 Lbs.
292x158x228mm 6.3 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST October 1970
73 December 1974

	New	Used
Price:	\$130-170 Kit	\$55-80
Rating:	⑨	⑨



GR-81

General Coverage Broadcast Receiver Kit
Regenerative. 3 Tubes.



Features:

- 1/4" Head. Jack
- Speaker
- Bandsread

Specifications:

Coverage 140 - 18000 kHz Modes AM
Antenna Input Terminals

Circuit Complement:

12AT7 Detector/1st Audio, 50C5 Audio Output and 35W4 Rectifier.

Accessories:

GD125 Q-Multiplier

Comments:

Ranges: .55-1.6, 1.6-4, 4-10 and 10-30 MHz. Green and beige metal cabinet. The GR-81 was a popular introductory set. It features a regenerative-detector circuit and two stages of audio amplification.

Mfg. In: United States 1962-1971

Voltages: 105-125 VAC
50/60 Hz 30W

Readout:  Analog

Physical: 10x7x7" 12 Lbs
254x178x178mm 5.4 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$23-30 Kit	\$20-40
Rating:	⑨	⑨



GR-91

General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. 4 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- Dial Lamp
- Antenna Trimmer
- BFO
- ANL
- Speaker 3x5"
- Bandsread 0-10
- Mute
- Standby

Specifications:

Coverage 550 - 30000 kHz Modes AM/CW
IF 455 kHz. Antenna Input . Terminals 75/300 ohms
Audio Out 8 ohms

Circuit Complement:

12BE6 Osc/Mixer, 12BA6 IF Amp/BFO, 12AV6 Detector/Audio Amp, 50C5 Audio Output and silicon diode rectifier.

Accessories:

GD125 Q-Multiplier

Comments:

Ranges: .55-1.5, 1.5-4, 4-10 and 10-30 MHz. The headphone jack is on the rear panel. Beige and aquamarine cabinet.

Variants:

Model **GR-91E** is 115/230 VAC.

Mfg. In: United States 1961-1963

Voltages: 105-125 VAC
50/60 Hz 30W

Readout:  Analog

Physical: 12.25x5.25x8.25" 9 Lbs.
311x133x209mm 4 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$40-50 Kit	\$20-40
Rating:	⑨	⑨



HR-10

Amateur Band Communications Receiver Kit
Single Conversion Superheterodyne. 7 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Dial Lamp
- Antenna Trimmer
- BFO
- ANL
- AVC ON/OFF
- Speaker
- Mute
- Standby

Specifications:

CoverageHam. See Comments. Modes AM/SSB/CW
Selectivity3 kHz -6dB. Image Rej >40 dB
Sensitivity<1 μ V CW 10 dB S/N IF 1681 kHz.
Audio Out8 ohms Antenna Input . 50-75 ohms RCA

Circuit Complement:

6BZ6 RF Amp, 6EA8 Mixer Oscillator, 6BA6 1st IF Amp, 6EA8 2nd IF Amp/BFO, 6BJ7 Detector/AVC/ANL, 6EB8 1st Audio/Audio Output and 6X4 Rectifier.

Accessories:

HS-24 Speaker HRA-10-1 Calibrator 100 kHz

Comments:


Ranges: 3.5-4, 7-7.3, 14-14.35, 21-21.5 and 28-29.7 MHz. Matches the DX-60 transmitter.

Variants:

Model **HR-10B** 1968-74 \$75-\$90. It is a different color and matches the DX-60B.

Mfg. In: United States 1961-1967

Voltages: 117 VAC
50/60 Hz 50W

Readout:  Analog

Physical: 13.75x6.5x11.5" 18 Lbs.
349x165x292mm 8.1 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST July 1963

	New	Used
Price:	\$75-83 Kit	\$40-70
Rating:	⑨	⑨



HR-20

Amateur Band Communications Receiver Kit
Single Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Dial Lamp
- Antenna Trimmer
- BFO
- ANL
- 30:1 Ratio Tuning
- AVC OFF/FST/SLO
- Mute
- Line Out 500 ohms

Specifications:

CoverageHam. See Comments. Modes AM/SSB/CW
Sensitivity<1 μ V 10 dB S/N IF 3000 kHz.
Audio Out8 ohms Antenna Input . RCA 50-75 ohms

Circuit Complement:

6BZ6 RF Amp, 6EA8 Mixer/Oscillator, 6BZ6 1st IF Amp, 6EA8 2nd IF Amp/S-Meter Amp, 6BE6 Product Detector/BFO, 6BJ7 AM Detector/AVC/ANL, 6EB8 1st Audio/Audio Output and 0A2 Voltage Regulator.

Accessories:


HP-10 Mobile PS HP-12 Mobile PS HP-20 AC PS
HP-20 AC PS HP-23 AC PS

Comments:

Ranges: 3.5-4, 7-7.3, 14-14.35, 21-21.5 and 28-29.7 MHz. Designed for mobile use. Matches the HX-20 transmitter. Requires an external power supply.

Mfg. In: United States 1962-1964

Voltages: 275-300 VDC @120 ma,
6/12 VDC @2.5 amps.

Readout:  Analog

Physical: 12.125x6.125x10" 16 Lbs.
307x155x254mm 8.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST March 1964
73 December 1962

	New	Used
Price:	\$135 Kit	\$40-50
Rating:	⑨	⑨



HR-1680

Amateur Band Communications Receiver Kit
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Dial Lamp
- Preselector
- RF Gain
- Dial Set
- Spinner Knob
- Calibrator 100 kHz
- Mute

Specifications:

CoverageHam. See Comments
Selectivity2.1/.25 kHz -6dB.
Sensitivity<1μV 10 dB S/N
IF Rejection ...>60 dB
Audio Out1.2W 4 ohms

Modes LSB/USB/CW
Stability <100 Hz after 30 mins.
IF 8.395-8.895MHz, 3.395 MHz
Image Rej.>50 dB
Antenna Input . 50 ohm

Accessories:

HS-1661 Speaker

Comments:

Ranges: 3.5-4, 7-7.5, 14-14.5, 21-21.5, 28-28.5 and 28.5-29 MHz. Dial calibration accuracy is <2 kHz. AGC slow for SSB and AGC fast for CW is automatically selected. Note there is no AM mode. Light green cabinet with red dial window. Matches the HTX-1681 Transmitter.

Mfg. In: United States 1977-1981

Voltages: 120/240 VAC 50/60Hz 27W
or 11.5-15 VDC @.75 Amps

Readout:  Analog Lin

Physical: 12.75x6.75x12" 14 Lbs.
324x171x304mm 6.3 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common
Reviews: QST January 1977
CQ October 1976
73 June 1977

	New	Used
Price:	\$200-225 Kit	\$50-110
Rating:	⑨	⑨



MR-1 Comanche

Amateur Communications Receiver Kit
Single Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Antenna Trimmer
- RF Gain
- AVC ON/OFF
- BFO
- AVC (On/Off)
- Mute Line
- Dial Lamp
- Speaker Out
- 30:1 Tune Ratio

Specifications:

CoverageHam. See Comments. Modes AM/SSB/CW
Selectivity3 kHz -6dB. IF 3000 kHz.
Sensitivity<1μV SSB 10 dB S/N Antenna Input . SO-239 50 ohms
Audio Out2 W 8/500 ohms

Circuit Complement:

6BZ6 RF Amp, 6EA8 Mixer-Oscillator, 6BZ6 1st IF Amp, 6EA8 2nd IF Amp/S-Meter Amp, 6BE6 Product Detector, 6T8 1st Audio/Det/AVC/NL, 6AQ5 Audio Output and 0A2 Voltage Regulator. The circuit includes an RF stage, converter, two IF stages, two detectors, noise limiter, two audio stages and a voltage regulator.

Accessories:

HP-10 Mobile PS HP-20 AC Power Supply AK-7 Speaker

Comments:

Ranges: 3.5-4, 7-7.3, 14-14.35, 21-21.5 and 28-29.7 MHz. Designed for mobile use. The MR-1 matches the MT-1 Cheyenne transmitter. Requires an external power supply.

Mfg. In: United States 1959-1962

Voltages: 6/12/350 VDC 64W

Readout:  Analog Lin.

Physical: 12.125x6.125x10" 15 Lbs.
308x155x254mm 7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST April 1960
CQ October 1959

	New	Used
Price:	\$120-130 Kit	\$30-75
Rating:	⑨	⑨



RX-1 Mohawk

Amateur Communications Receiver Kit

Double Conversion Superheterodyne. 15 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Notch
- RF Gain
- AVC ON/OFF
- BFO
- Antenna Trimmer
- Mute Line
- Standby
- Dial Lamp
- Calibrator 100 kHz

Specifications:

CoverageHam. See Comments. Modes AM/LSB/USB/CW
Selectivity 5/3/2/1/.5 kHz -6dB. IF 1682, 50 kHz.
Sensitivity <1µV SSB 10 dB S/N Antenna Input . SO-239 & Terminals
Audio Out 2 W 8/500 ohms

Circuit Complement:

6BZ6 RF Amp, 6CS6 1st Mixer, 12AT7 Osc-Cathode Follower, 6BA6 1st IF IF Amp, 6CS6 2nd Mixer, 12AT7 1632-1732 kHz Crystal Osc, 6BA6 2nd IF Amp, 6BA6 2nd IF Amp, 6BJ7 Det/AVC/ANL, 6CS6 Product Detector, 12AT7 1st Audio/S-Meter Amp, 6AQ5 Audio Output, 0A2 Voltage Regulator and 5V4 Rectifier.

Accessories:

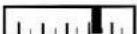
AK-5 Speaker

Comments:

Ranges: 1.8-2, 3.5-4, 7-7.3, 14-14.35, 21- 21.45, 26.96-27.23 and 28-29.7 MHz. The RX-1 is pre-calibrated for 6 and 2 meter converters. The RX-1 matches the TX-1 Apache transmitter.

Mfg. In: United States 1958-1964

Voltages: 117 VAC
50/60 Hz 75W

Readout:  Analog Lin.

Physical: 19.5x11.675x16" 52 Lbs.
495x296x406mm 23 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST December 1958

	New	Used
Price:	\$275-300 Kit	\$50-70
Rating:	⑨	⑨



SB-300

Amateur Communications Receiver Kit

Double Conversion Superheterodyne. 10 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Preselector
- RF Gain
- LMO Out Jack
- BFO Jack
- AGC OFF/SLO/FST
- Mute Line
- Anti-Vox
- Standby
- Calibrator 100 kHz

Specifications:

CoverageHam. See Comments. Modes AM/LSB/USB/CW
Selectivity 2.1/ / _ kHz -6dB. Stability <100 Hz after 20 mins.
Sensitivity <1µV SSB 15 dB S/N IF 8400-8900, 3395 kHz.
Image Rej >60 dB IF Rej 50 dB
Audio Out 1 W 8 ohms 8% dist. Antenna Input . RCA 50 ohms

Circuit Complement:

6BZ6 RF Amp, 6AU6 Crystal Calibrator, 6AU6 1st Mixer, 6AU6 2nd Mixer, 6AB4 Het Oscillator, 6BA6 IF Amp, 6BA6 IF Amp, 6HF8 AF Amp and 6AS11 Product Detector/BFO.

Accessories:

SBA-301-2 .4 kHz CW Filter SBA-300-4 2M Converter
SMBA-301-2 3.75 kHz AM Filter SBA-300-3 6M Converter
Crystal Calibrator 100 kHz HS-24 Speaker

Comments:

Ranges: 3.5-4, 7-7.5, 9.5-10, 14-14.5, 21-21.5, 28-28.5, 29-29.5 and 29.5-30 MHz. Matches the SB-400 transmitter. 25 kHz per revolution. Dial accuracy is 400 Hz. Requires a speaker.

Mfg. In: United States 1963-1966

Voltages: 105-125 VAC
50/60 Hz 50W

Readout:  Analog Lin.

Physical: 14.875x6.68x13.4" 17 Lbs.
378x170x340mm 7.7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST July 1964
CQ September 1964
73 August 1964

	New	Used
Price:	\$250-265 Kit	\$75-175
Rating:	⑨	⑨



SB-301

Amateur Communications Receiver Kit

Double Conversion Superheterodyne. 10 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Preselector
- RF Gain
- Anti-Vox
- Standby
- AGC OFF/SLO/FST
- Mute Line
- LMO Jack
- BFO Out Jack
- HFO Jack

Specifications:

CoverageHam. See Comments. Modes AM/LSB/USB/CW/RTTY
 Selectivity2.1 kHz -6dB. Stability <100 Hz after 20 mins.
 Sensitivity<.25μV SSB 10 dB S/N IF 8395-8895, 3395 kHz.
 Image Rej>60 dB IF Rej >50 dB
 Audio Out5 W 8 ohms 8% dist. Antenna Input . RCA 50 ohms

Circuit Complement:

6CB6 Master Osc, 6BZ6 RF Amp, 6AU6 Crystal Calibrator, 6AU6 1st Mixer, 6AU6 2nd Mixer, 6AB4 Het Oscillator, 6BA6 IF Amp, 6BA6 IF Amp, 6HF8 AF Amp, 6AS11 Product Detector/BFO, 1N191 AM Detector, (2) 1N458 AGC, (2) S187 NL and (3) 1N2079 Rectifier.

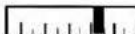
Accessories:

SB-600 Speaker Crystal Calibrator 100 kHz
 SBA-301-2 .4 kHz CW Filter SBA-301-1 3.75 kHz AM Filter
 SBA-300-3 6M Converter SBA-300-4 2M Converter

Comments: Ranges: 3.5-4, 7-7.5, 9.5-10, 14-14.5, 15-15.5, 21-21.5, 28-28.5, 29-29.5 and 29.5-30 MHz. Now features 15-15.5 MHz and RTTY mode position. Matches the SB-401 transmitter.

Mfg. In: United States 1966-1970

Voltages: 105-125 VAC
50/60 Hz 50W

Readout:  Analog Lin.

Physical: 14.875x6.68x13.4" 17 Lbs.
377x169x340mm 7.7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST March 1967
73 August 1967

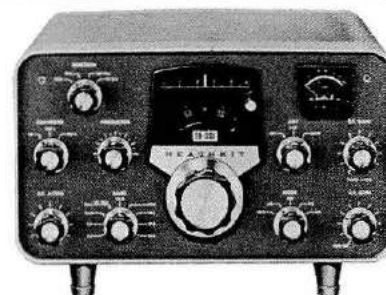
	New	Used
Price:	\$260-270 Kit	\$75-170
Rating:	⑨	⑨



SB-303

Amateur Communications Receiver Kit

Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Preselector
- RF Gain
- HFO Out Jack
- LMO Out Jack
- Calibrator 25/100 kHz
- Mute Line
- Anti-Vox
- Standby
- AGC OFF/SLO/FST
- Speaker Switch
- Attenuator

Specifications:

CoverageHam. See Comments. Modes AM/LSB/USB/CW/RTTY
 Selectivity2.1 kHz -6dB. Stability <100 Hz after 10 mins.
 Sensitivity<.25μV SSB 10 dB S/N IF 3395 kHz.
 Image Rej>60 dB IF Rej >50 dB
 Audio Out4 W 8 ohms 10% dist. Antenna Input . RCA 50 ohms

Circuit Complement:

1 Integrated Circuit, 27 transistors with MOSFET front-end.

Accessories:

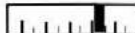
SBA-301-2 .4 kHz CW Filter SB-650 Digital Display
 SBA-301-1 3.75 kHz AM Filter VHF Converters
 SB-600 Speaker

Comments:

Ranges: 3.5-4, 7-7.5, 9.5-10, 14-14.5, 15-15.5, 21-21.5 and 28-30 MHz. Dial readout is 1 kHz with dial accuracy at 400 Hz. The SB-303 matches SB-401 transmitter.

Mfg. In: United States 1970-1976

Voltages: 105-125 & 210-250 VAC
50/60 Hz 40W

Readout:  Analog Lin.

Physical: 12.25x8x14" 15.75 Lbs.
311x203x355mm 7.2 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST July 1971
CQ April 1971

	New	Used
Price:	\$320-345 Kit	\$110-175
Rating:	⑨	⑨



SB-310

Shortwave Broadcast Communications Receiver Kit

Double Conversion Superheterodyne. 10 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- AGC SLO/MED/FST
- RF Gain
- Preselector
- Standby
- Mute

Specifications:

Coverage See Comments. Modes AM/LSB/USB/CW
 Selectivity 5/ / _ kHz -6dB. IF 8395-8895, 3395 kHz.
 Sensitivity <.3 μ V SSB 10 dB S/N Audio Out 1 W 8 ohms
 Image Rej.>60 dB Drift <100 Hz/hour

Circuit Complement:

6CB6 Master Osc, 6BZ6 RF Amp, 6AU6 Crystal Calibrator, 6AU6 1st Mixer, 6AU6 2nd Mixer, 6AB4 Het Oscillator, 6BA6 IF Amp, 6BA6 IF Amp, 6HF8 AF Amp, 6AV11 Product Detector/BFO, 1N191 AM Detector, (2) 1N458 AGC, 2S187 NL and 1N2079 Rectifier.

Accessories:

.4 kHz CW Filter 2.1 kHz SSB Filter 2.1 kHz Deluxe SSB Filter
 SB-600 Speaker

Comments:

This is the shortwave listener's version of the SB-300. Dial accuracy is rated at \pm 400 Hz. Ranges: 3.5-4, 5.7-6.2, 7-7.5, 9.5-10, 11.5-12, 14-14.5, 15-15.5, 17.5-18 and 26.9-27.4 MHz.

Mfg. In: United States 1968-1972

Voltages: 120/240 VAC
 50/60 Hz 50W

Readout:  Analog Lin.

Physical: 15x6.75x14" 17 Lbs.
 380x170x350mm 8 kg

Status: Inactive Manufacturer
 Inactive Model

Rarity: Scarce

	New	Used
Price:	\$259-268 Kit	\$100-150
Rating:	⑨	⑨



SB-313

Shortwave Broadcast Communications Receiver Kit

Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Calibrator 100/25 kHz
- RF Gain
- Standby
- Preselector
- AGC SLO/MED/FST
- Mute Line
- Attenuator

Specifications:

Coverage See Comments Modes AM/LSB/USB/CW
 Selectivity 5/ / _ kHz -6dB. Image Rej.>60 dB
 Sensitivity <.5 μ V SSB 10 dB S/N IF 8395-8895, 3395 kHz.
 Audio Out 4 W 8 ohms Stability <10 Hz/hour after 10 mins.

Accessories:

SB-600 Speaker SBA-301-2 .4 kHz CW Filter
 SBA-310-2 2.1 kHz SSB Filter

Comments:

Ranges: 3.5-4, 5.7-6.2, 7-7.5, 9.5-10, 11.5-12, 14-14.5, 15-15.5, 17.5-18 and 21.3-21.8 MHz. This is basically a solid state version of the SB-310. The dial accuracy is \pm 1kHz.

Mfg. In: United States 1972-1975

Voltages: 105-130/210-260 VAC
 50/60 Hz 40W

Readout:  Analog Lin.

Physical: 12.25x8x14"
 380x170x350mm 8 kg

Status: Inactive Manufacturer
 Inactive Model

Rarity: Scarce

Reviews: *Popular EI*, November 1972

	New	Used
Price:	\$340-360 Kit	\$100-225
Rating:	⑨	⑨



SW-717

General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- Ferrite MW Antenna
- RF Gain
- ANL
- Standby
- Bandsread ± 5 Units
- Speaker
- Dial Lamp

Specifications:

Coverage See Comments
Selectivity 3 kHz -6dB.
Sensitivity 4 μ V
Modes AM/CW
Antenna Input . Terminals 50 ohm

Circuit Complement:


Dual gate MOSFET mixer stage, ceramic filter, zener diode regulated oscillator power supply for good stability.

Comments:

Ranges: .55-1.55, 2-5, 5-12.5 and 12.5-30 MHz

Mfg. In: United States 1972-1981

Voltages: 120/240 VAC
50/60 Hz 8W

Readout:  Analog

Physical: 14.5x5.34x8" 10 Lbs.
370x140x203mm 4.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$70-139 Kit	\$50-90
Rating:	⑨	⑨

Heathkit

SW-7800

General Coverage Communications Receiver Kit
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Telescopic Whip
- AGC SLOW/FAST
- Mute Line
- Speaker
- RF Attenuator
- Record Jack
- Dial Lamp

Specifications:

Coverage 150 - 30000 kHz
Selectivity 5/2.5 kHz -6dB.
Sensitivity <.35 μ V SSB 10 dB S/N
Audio Out 1 W 8 ohms
Modes AM/LSB/USB/CW
Image Rej >55 dB
Antenna Input . Terms. & SO230 50 ohm

Accessories:

.4 kHz CW Filter 2.1 kHz SSB Filter 2.1 kHz Deluxe SSB Filter

Comments:

Ranges: 3.5-4, 5.7-6.2, 7-7.5, 9.5-10, 11.5-12, 14-14.5, 15-15.5, 17.5-18 and 26.9-27.4 MHz. Quite drifty. This receiver was not warmly received by radio reviewers or the listening community.

Mfg. In: United States 1985-1990

Voltages: 120 VAC or
13.8 VDC .75 Amps

Readout: **00001.** Digital LED

Physical: 11.5x4.875x11.5" 9 Lbs.
292x123x292mm 4 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: *Passport* 1985/86
Passport 1989-91
WRTH 1986
QST April 1985

	New	Used
Price:	\$300-350 Kit	\$100-150
Rating:	⑨	⑨

Born in 1931 in Kyoto Prefecture, Japan, Mr. Tokuzo Inoue founded the Inoue Electric Factory in 1954. In 1964 the Inoue Electric Factory Company Limited was established.

In 1965 the all transistorized FDAM-1 50 MHz transceiver was introduced ushering the move towards all solid state transceivers.

In 1967 the Inoue's first H.F. amateur band transceiver was introduced consisting of the IC-700R receiver and the IC-700T transmitter. In 1970 the Inoue IC-20 12 channel VHF transceiver was made. The 24 channel IC-21 followed in 1974.

The Company name was changed to **ICOM** in 1978. Icom America, headquartered in Bellevue, Washington was established in October of 1979. By the late 1970's the amateur market became acquainted with Icom's high quality standards and state-of-the-art communications products. The shortwave community came to know Icom in 1982 with the introduction of the very successful R-70 general coverage receiver. The even more highly acclaimed R-71 followed. The R-7000 and R-7100 VHF receivers offered sophistication never before available to the hobby market. For many, the R-9000 wideband model defines the ultimate receiver.

Mr. Tokuzo Inoue, the Founder, President and Chairman of Icom overseas a company with ¥24 billion in annual sales.

ICOM Inc.

6-9-16, Kamihigashi
Hirano-ku
Osaka 547, Japan

ICOM America Inc.

2380 116th Ave. N.E.
Bellevue, WA 98004

INOUE

IC-700R

Amateur Band Communications Receiver

Single Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Meter
- 500 Hz CW Audio Filter
- RF Gain
- NB
- BFO
- Mute
- Fixed Position

Specifications:

Coverage Ham. See Comments. Modes AM/SSB/CW
Selectivity 2.4 kHz -6dB. Stability ±100 Hz
Sensitivity <1µV IF Rejection >60 dB
Image Rej >60 dB

Circuit Complement:

This all transistor receiver uses FETs in the RF and oscillator stages and a 9 MHz crystal filter.

Comments:

Ranges: 3.5-4, 7-7.5, 14-14.5, 21-21.5, 28-28.5, 28.5-29, 29-29.5 and 10-10.5 MHz. Requires a speaker. This was Inoue's first receiver. The IC-700R matches the IC-700T transmitter.



Made In: Japan 1967-1968

Voltages: 110/240 VAC or 12 VDC

Readout:  Analog Lin.

Physical: 11x6.5x9.5" 12 Lbs
280x165x241mm 5.44 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	②
Rating:	⑥	⑥



R-70

General Coverage Communications Receiver
 Quadruple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- Line Out Jack
- Two VFOs
- Dial Lock
- S-Meter
- Squelch
- Tone
- Ext. Spkr Jack
- Preamp
- Monitor
- NB
- Notch
- Dimmer
- RIT ± 800 Hz
- Speaker
- Scope Jack
- PBT
- Three Tuning Rates
- AGC OFF/SLO/FST
- Converter In Jack
- Attenuator

Specifications:

Coverage 100 - 30000 kHz
 Selectivity 6/2.3/ _ kHz -6dB.
 Sensitivity <.16 μ V SSB 10 db S/N[^]
 Image Rej >60 dB
 Audio Out 3 W 8 ohms 10% dist.
 Dyn.Range 100 dB @500 Hz bw.

Modes AM/SSB/CW/RTTY
 Stability ± 250 Hz (1-60 mins.)
 IF Rejection ... >60 dB
 IF 70.4515, 9.0115, .455, 9.0115
 Environment ... -10° to +60° C.
 Antenna Input . SO239 and Terminals

Circuit Complement:

43 Integrated Circuits, 77 transistors, 14 FETs and 180 diodes.

Accessories:

FL-63 CW Filter FL-44 SSB Filter EX-257 FM Mode Option
 DC Kit

Comments: Utilizes 10 Hz step digital VFO. [^]Sensitivity is 1 μ V below 1.6 MHz. Interfaces to IC-720A amateur transceiver. The R-70 is a good receiver, but relatively complex to operate.

Made In: Japan 1981-1984

Voltages: 100/117/220-240 VAC
 50/60 Hz 25 W

Readout: **00000.1** Digital Flor.

Physical: 11.3x4.4x10.9" 16.3 Lbs.
 286x111x276mm 7.4 kg

Status: Active Manufacturer
 Inactive Model

Rarity: Common

Reviews: *Passport* 1985
QST June 1983
Popular Comm. Dec. 1983
Mon. Times January 1983
WRTH 1983, 1984
 73 February 1982

	New	Used
Price:	\$600-700	\$390-410
Rating:	★★★★	★★★★



ICOM

R-71A

General Coverage Communications Receiver
 Quadruple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- Line Out Jack
- Memory Scan
- Dial Lock
- S-Meter
- 32 Memories
- Tone
- Ext. Spkr Jack
- Sweep
- Speaker
- PBT¹
- Notch
- Dimmer
- Squelch
- 10 Hz VFO
- Keypad
- Two VFOs
- Three Tuning Rates
- AGC OFF/SLO/FST
- Preamp
- Dial Tension Adjust
- Attenuator

Specifications:

Coverage 100 - 30000 kHz
 Selectivity 6/2.3/ _ kHz -6dB.
 Sensitivity <.15 μ V SSB 10 db S/N[^]
 IF Rejection ... >60 dB
 Audio Out 2 W 8 ohms 10% dist.

Modes AM/SSB/CW/RTTY
 Stability ± 250 Hz (1-60 mins.)
 IF 70.4515, 9.0115, .455, 9.0115 MHz
 Antenna Input . SO239 and Terminals
 Environment ... -10° to +60° C.

Accessories:

RC-11 Remote EX-257 FM Mode Option CR-64 High Stability
 EX-310 Voice Synthz. EX-309 Intfc. Option CK-70 DC Option
 FL-32A 500Hz CW Filter FL-63A 250Hz CW Filter FL-44A 2.4 kHz SSB Filter
 CT-17 Level Converter UX-14 CI-IV/CI-V Conv. MB-12 Mobile Bracket

Comments: ¹The Passband Tuning was deleted temporarily from production (04/89) due to a patent issue. Used units without PBT sell for \$50 less. Memories store freq. and mode. Volatile firmware programming. An excellent SSB receiver.

Variants: Model R-71E is the European version (R-71D is the German version).

Made In: Japan 1984-1996

Voltages: 100/117/220-240 VAC
 50/60 Hz 25 W

Readout: **00000.1** Digital Flor.

Physical: 11.75x4.4x10.9" 17 Lbs.
 298x112x277mm 7.7 kg

Status: Active Manufacturer
 Inactive Model

Rarity: Abundant

Reviews: *Passport* 1985/86-1997
R.D.I. Whitepaper
WRTH 1985
Monitoring Times May 1984
Monitoring Times May 1995
CQ August 1984
S.W. Magazine January 1992
Buyer's Guide to Amateur R.

	New	Used
Price:	\$689-1280	\$560-660
Rating:	★★★★★	★★★★★

ICOM

R-72

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- AGC
- 24 Hour Clock-Timer
- Dial Lock
- Atten. -10/20 dB
- 99 Mems (F/M)
- 2 Band Edge Mem
- Record Jack
- Keypad
- NB
- Three Tuning Rates
- Preamp
- Mute Line
- Dimmer
- Dial Adj. Brake
- Scan/Sweep
- Tilt Bar
- Fast/Slow Scan
- Recorder Activation

Specifications:

Coverage 100 - 30000 kHz Modes AM/SSB/CW
Selectivity 6/2.3/_ kHz -6dB. Stability ±200 Hz (1-60 mins.)
Sensitivity <.16µV SSB 1.8-30 MHz IF 70.4515,9.0115,.455[FM] MHz
Image Rej >70 dB Dyn. Range 100 dB
Audio Out 2 W 8 ohms 10% dist. Antenna Input . SO239 and terminals

Accessories:

SP-3 Speaker UI-8 FM Mode Option UR-1 Receiver Protector
OPC-131 DC Kit FL-100 500 Hz CW Filter FL-101 250 Hz CW Filter
CR-64 Hi Stability UT-36 Voice Synthesizer CT-17 Level Converter
MB-23 Carry Handle MB-5 Mobile Bracket

Comments:

The R-72 never gained wide popularity in the North American market. Some reviewers felt that the supplied bandwidths were inappropriate for DX'ing. Triple conversion in optional NB-FM mode. The Australian version covers 250 - 29900 kHz. The German version covers 150 - 26100 kHz.

Made In: Japan 1990-1997

Voltages: 100/117/220-240 VAC
50/60 Hz 25 W

Readout: **00000.01** Digital LCD

Physical: 9.5x3.7x9" 10.6 Lbs.
241x94x229 mm 4.8 kg

Status: Active Manufacturer
Inactive Model

Rarity: Common

Reviews: *Passport* 1991-1997
WRTH 1991
WRTH Buyer's Guide 1993
Mon. Times July 1990

	New	Used
Price:	\$696-1099	\$400-450
Rating:	★★	★★

ICOM

R-100

Wideband Broadcast Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- S-Indicator
- AFC
- 8 Tune Steps
- Preamp 50-905 MHz
- ANL
- 100 Memories
- Attenuator -20 dB
- 20 Band-Edge Mem.
- Speaker Jack
- Keypad
- Dimmer
- 24 Hour Clock-Timer
- Backlit LCD
- Ant. Sel. Jack

Specifications:

Coverage 500 kHz - 1856 MHz[^] Modes AM/FM-N/FM-W
Selectivity 6/15/180 kHz -6dB. Stability ±3.5 PPM @1800 MHz.
Sensitivity <1.6 µV AM 1.6-50 MHz Antenna Input . SO239 / N / N
Audio Out 2.5 W 8 ohms 10% dist.

Accessories:

SP-7 Speaker SP-10 Speaker
SP-12 Speaker CP-11 Cigar Lighter Cord AH-7000 Antenna

Comments: Designed primarily for mobile use. [^]Specifications guaranteed from .5-1800 MHz. Tuning steps: 1, 5, 8, 9, 10, 12.5, 20 or 25 kHz. Memories store: frequency, mode, step, and preamp/attenuator settings. Nine different scanning modes are supported. The French version covers .1-87.5 and 108.5-1856 MHz. Units manufactured for America after April 1995 lack coverage from 800 to 900 MHz. This was to comply with the Federal law prohibiting the reception of cellular frequencies. The American blocked versions are referred to as model **R-100-11**. The unblocked, or government version is referred to as **R-100-03**. This receiver is popular for tuning satellite transponders due to its wide spectrum coverage. There are three antenna inputs: .5-50 (SO239), 50-905 (N) and 905-1800 (N) MHz.

Made In: Japan 1990-1997

Voltages: 13.8 VDC ±15% 1.1 Amps

Readout: **00000.01** Digital LCD

Physical: 5.9x2x7.1" 3.1 Lbs.
150x50x181mm 1.4 kg

Status: Active Manufacturer
Active Model

Rarity: Common

Reviews: *WRTH* 1991
Mon. Times October 1980

	New	Used
Price:	\$599-660	\$300-350
Rating:	★★★★	★★★

ICOM

R-8500

Wide Band Communications Receiver

Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Clock-Timer
- Line Out Jack
- Scan
- FM AFC
- S/Tune Meter
- S-Meter Squelch
- Squelch
- Ext. Spkr Jack
- Sweep
- Dimmer
- IF Shift ± 1.2 kHz
- 1000 Memories
- RS-232 Port
- 10.7 MHz IF Out
- Keypad
- NB
- Audio Peak Filter
- Three Tuning Rates
- Voice Scan Control
- Record Activation
- Atten. -10/20/30 dB
- Tune Drag Adj.

Specifications:

Coverage 1 - 1999.99 MHz Δ Modes AM/SSB-CW/FM-W/FM-N
 Selectivity 150/12/5.5/2.2 kHz -6dB. Stability ± 100 Hz (<30 MHz)
 Sensitivity -14 dB μ 2-30 MHz IF Rejection >70 dB 1.6-30 MHz
 Image Rej >60 dB 1.5-30 MHz IF 48.8, 10.7, .455, MHz. <30 MHz
 Audio Out 2 W 4-8 ohms Environment ... -10° to +50° C.
 Dyn.Range 107 dB Antenna Input . SO239 / RCA / N

Accessories:

TV-R7100 NTSC TV FL-52A 500Hz CW Filter CR-293 High Stability
 UT-102 Voice Synth. MB-23 Carry Handle MB-12 Mobile Bracket

Comments: 800 standard memories (20 banks of 40 channels), 100 Skip Scans and 100 Auto Write Memory Scans. Five scan methods (10 to 20 ch/sec). Double conversion on FM wide.

Variants: In the U.S.A., model **R-8500-02** has the cellular frequencies of 824-849 and 869-894 MHz blocked. Model **R-8500-03** is an unblocked government version.

Made In: Japan 1996-1997

Voltages: 117 VAC 60 Hz (AD-55A) or 12 VDC 2 Amps

Readout: **00000.01** Digital LCD

Physical: 11.3x4.4x12.16" 17.7 Lbs
 287x112x309mm 8 kg

Status: Active Manufacturer
 Active Model

Rarity: Scarce

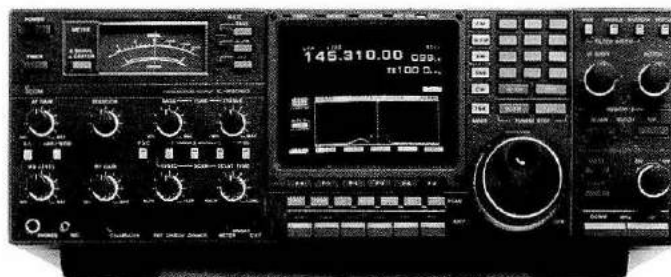
	New	Used
Price:	\$2000	\$1300-1400
Rating:	★★★★★	★★★★★

ICOM

R-9000

Wide Band Communications Receiver

Quadruple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Bass
- Line Out Jack
- Mem. Scanning
- Rack Handles
- S-Meter
- 1000 Memories
- Treble
- Ext. Spkr Jack
- Sweep
- NB
- IF Shift
- Notch
- Dimmer
- Squelch
- Keypad
- Video Out
- Spectrum Display
- Three Tuning Rates
- AGC SLO/FST/OFF
- Preamp
- Attenuator -10/20 dB
- Dual Clock-Timer

Specifications:

Coverage 100 kHz - 1999.8 MHz Modes AM/SSB/CW/FM/RTTY
 Selectivity 150/15/6/2.4/.5 kHz-6dB IF 48.8 nom., 10.7, .45, 10.7 MHz. 1-30
 Sensitivity <.16 μ V SSB 1.6-30 MHz Environment ... -10° to +50° C.
 Stability ± 25 Hz (.1-30 MHz) Antenna Input . SO239 / N / N
 Audio Out 2.5W 4-8 ohms 10% dist.

Accessories: CT-16 Satellite Intf. CK-70 DC Option
 UT-36 Voice Synthz. CT-17 Level Converter AH-7000 Antenna

Comments: FM selectivity: 6/15/30/150 kHz. Tuning steps: .01, .1, 1, 5, 9, 10, 12.5, 20, 25 and 100 kHz. The spectrum display shows: ± 25 , ± 50 or ± 100 kHz. CRT can also display TV video on some versions. Eight scanning methods are supported. Scans at 13 ch./sec. Memories store: frequency, mode and bandwidth. Sold primarily to the military and govt. markets. Sale to American hobbyist prohibited after 1995 because of cellular coverage. Versions for France, Germany and Australia have different coverage. A fabulous wideband receiver that is excellent on H.F.

Made In: Japan 1989-1997

Voltages: 100-120 VAC 60 Hz
 (Non-USA: 220-240 VAC)

Readout: **00000.01** CRT

Physical: 16.7x5.9x14.4" 44.1 Lbs.
 424x150x365mm 20 kg

Status: Active Manufacturer
 Active Model

Rarity: Scarce

Reviews: *Passport* 1990-1997
WRTH 1990
WRTH Buyer's Guide 1993
Mon. Times August 1989
CQ February 1990

	New	Used
Price:	\$4699-6600	\$3500-4000
Rating:	★★★★★	★★★★★

31 Japan Radio Company

The **Japan Radio Company** was established in 1915 and is one of the oldest and largest electronics manufacturing companies in the world. J.R.C. is a respected leader in marine radio equipment, mobile and satellite communications, computerized dam and river management systems, computer graphics, fiber-optics, radar, navigation equipment and avionics systems.

J.R.C. employs over 3,500 employees worldwide. J.R.C. sales in 1990 exceeded ¥108 billion.

J.R.C. is best known in North America for their respected line of NRD-5x5 receivers. This series started with the NRD-505 and continues to the current NRD-535. A line of quality HF amateur transceivers is also available.

Occasionally one may be lucky enough to find one of J.R.C.'s commercial receivers available in the hobbyist market such as the NRD-92 or NRD-93.

Please note that J.R.C. "commercial" sensitivity specifications are very conservative compared with "consumer" specifications used by other manufacturers.

Japan Radio Company Ltd.
Akasaka 2-chome,
Minato-ku, Tokyo
Japan

Japan Radio Company Ltd.
New York Branch
430 Park Av.
New York, NY 10022

JRC *Japan Radio Co., Ltd.*

NRD-10

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- AGC OFF/ON
- RF Gain
- Mute
- Speaker Jack
- 16 Presets
- Dial Lock
- Atten. -20 dB
- Rack Handles
- Modular Construction
- Analog Sub-Dial

Specifications:

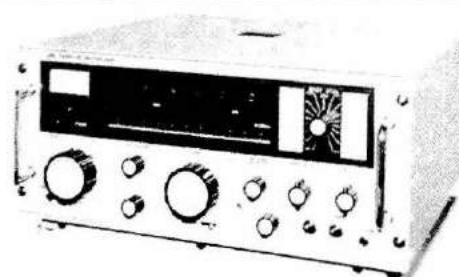
Coverage 100 - 30000 kHz Modes AM/CW/MCW/LSB/USB
Other specifications unknown.

Accessories:

Cabinet (shown) RTTY Demod Option

Comments:

Available in heavy cabinet (shown) or for rack mounting. Only double conversion on some frequencies. [¥250,000].



Made In: Japan 1977-1978

Voltages: 100/110/115/220/230 VAC
50/60 Hz 50W

Readout: **00000.1** Digital LED

Physical: Cabinet Version:
19.25x9.5x15.7" 44 Lbs.
489x240x400mm 20 kg
Rack Version:
19x7.8x14.5" 31 Lbs.
489x199x370mm 14 kg

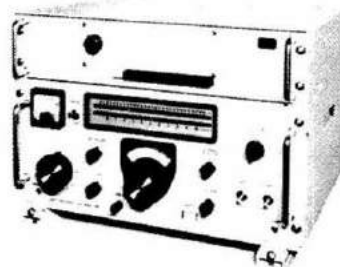
Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	\$800
Rating:	⑤	⑥

NRD-15K

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- AGC OFF/ON
- RF Gain
- Mute
- Speaker Jack
- 64 Memories
- Dial Lock
- Atten. -20 dB
- Rack Handles
- Modular Construction

Specifications:

Coverage 100 - 30000 kHz Modes AM/CW/MCW/LSB/USB
Other specifications unknown.

Accessories:

Cabinet (shown) RTTY Demod Option

Comments:

Available in heavy cabinet (shown) or for rack mounting. Only double conversion on some frequencies. [¥250,000]

Made In: Japan 1977

Voltages: 90-120 VAC
50/60 Hz 110W

Readout:  Analog Lin.

Physical: Cabinet Version:
19.25x13.4x16.4" 66.1 Lbs.
489x340x416mm 30 kg
Rack Version:
19x11.8x14.5" 44.1 Lbs.
480x300x370mm 20 kg

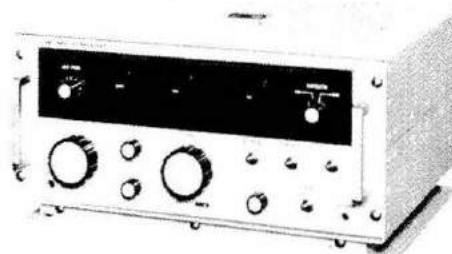
Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

NRD-20

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- BFO
- AGC OFF/ON
- Antenna Trimmer
- RF Gain
- Mute Line
- Speaker Jack
- Modular Construction
- Dial Lock
- Atten. -20 dB
- Rack Handles

Specifications:

Coverage 100 - 30000 kHz Modes AM/CW/MCW
Other specifications unknown.

Accessories:

Cabinet (shown)

Comments:

Available in heavy cabinet (shown) or for rack mounting. Only double conversion on some frequencies. [¥110,000].

Made In: Japan 1978

Voltages: 100/110/115/220/230 VAC
50/60 Hz 50W

Readout: **00000.1** Digital LED

Physical: Cabinet Version:
19.25x9.5x15.7" 37.5 Lbs.
489x240x400mm 17 kg
Rack Version:
19x7.8x14.5" 24.2 Lbs.
489x199x370mm 11 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

NRD-61



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Dial Lock
- Atten. -20 dB
- S-Meter
- Mute
- IF Out Jack
- Rack Handles
- BFO ± 2.5 kHz
- Speaker Jack
- BCB Reject
- AGC OFF/ON
- Modular Construction
- Line Out 600 ohms

Specifications:

Coverage 100 - 30000 kHz
Selectivity 6/3/.5 kHz -6dB.
Sensitivity <2 μ V CW .2-30 MHz
IF Reject >60 dB
Audio Out 1 W 600 ohms
IF 70.455 MHz, 455 kHz

Modes AM/MCW/CW/SSB
Stability ± 300 Hz/hr after warmup
Image Reject .. >60 dB
Environment ... -10° to +50°C 95% Humid
BFO Range ± 2.5 kHz.
Antenna Input . SO239

Accessories:

NDH-73 64 Ch. Memory Cabinet (shown)

Comments:

Available in heavy cabinet (shown) or for rack mounting. Supplied with the external SP-101 speaker.

Variants:

Model **NRD-61A** 1981 has <2 μ V CW 1.6-30 MHz

Made In: Japan 1977-1979

Voltages: 100/110/220/230 VAC
50/60 Hz or 24 VDC

Readout: **00000.1** Digital LED

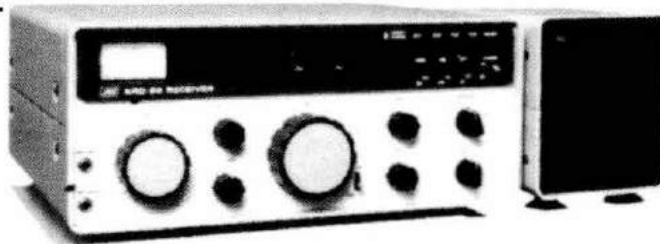
Physical: Cabinet Version:
19.25x7.5x15.7" 33 Lbs.
489x190x400mm 15 kg
Rack Version:
19x5.9x14.5" 20 Lbs.
480x149x370mm 9 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

NRD-66



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Dial Lock
- Line Out Jack
- S-Meter
- Mute
- Atten. -20 dB
- BFO
- Speaker Jack
- 4 Channel Preset
- AGC
- Modular Construction

Specifications:

Coverage 100 - 30000 kHz
Image Rej >70 dB
Audio Out 1 W 4 ohms
Other specifications unavailable.

Modes AM/LSB/USB/CW/RTTY
IF 70.455 MHz, 455 kHz.
Antenna Input . SO239

Comments:

The NRD-66 seems to be the evolutionary missing-link between the NRD-505 and the NRD-515. It was sold strictly to the marine market, and was not marketed in North America. Supplied with external speaker.

Made In: Japan 1981-1982

Voltages: 100/110/115/220/230 VAC
50/60 Hz 60W or 24 VDC

Readout: **00000.1** Digital LED

Physical: 13.4x6.3x11.8" 24.2 Lbs.
340x160x300mm 11 kg

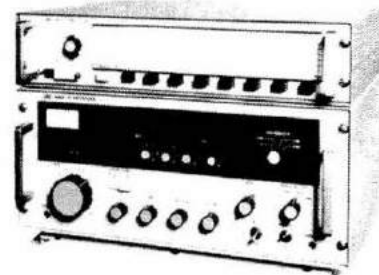
Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

NRD-71

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- AGC OFF/ON
- Antenna Trimmer
- RF Gain
- Mute
- Speaker Jack
- BFO
- Dial Lock
- Atten. 20 dB
- Rack Handles
- Modular Construction

Specifications:

Coverage 100 - 30000 kHz Modes AM/CW/MCW
IF 70.455 MHz, 455 kHz Environment ... -10° to +50°C 95% Humd.
Other specifications unknown.

Accessories:

Cabinet (shown) NDH-71 Preset Option (shown) RTTY Demod Option

Comments:

Available in heavy cabinet (shown) or for rack mounting. The optional NDH-71 Memory Option (shown) stores 64 channels. [¥220,000-300,000].

Made In: Japan 1978

Voltages: 100/110/115/220/230 VAC
50/60 Hz 85W

Readout: **00000.1** Digital LED

Physical: Cabinet Version:
19.25x9.5x15.7" 46.3 Lbs.
489x240x400mm 21 kg
Rack Version:
19x7.8x14.5" 33 Lbs.
489x199x370mm 15 kg

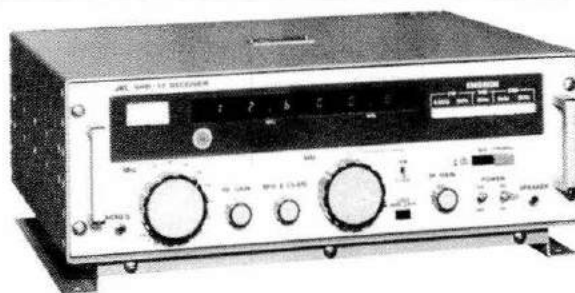
Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	\$2200
Rating:	⑥	⑥

NRD-72

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- BFO ± 2.5 kHz
- Line Out 600 ohm
- RF Gain
- Mute
- Speaker Jack
- 2182 kHz Preset
- Dial Lock
- IF Out Jack
- UP/DN Tuning
- Two Tuning Speeds
- Atten. 20 dB
- AGC OFF/ON
- Rack Handles
- Modular Construction

Specifications:

Coverage 100 - 30000 kHz Modes AM/MCW/CW/USB/LSB
Selectivity 6/3/.5 kHz -6dB. Stability ± 5 Hz for any 15 mins.
Sensitivity $< 2 \mu V$ CW 1.6-30 MHz[^] Image Reject ... > 70 dB
IF Reject > 60 dB Environment ... -10° to +50°C 95% Humd.
Audio Out 1 W 600 ohms BFO Range ± 2.5 kHz.
IF 70.455 MHz, 455 kHz Ant. Jack 75 ohm

Accessories:

NDH-73 64 Ch. Memory Cabinet (shown)

Comments:

Available in heavy cabinet (shown) or for rack mounting. Supplied with the external SP-101 speaker. [¥350,000]

Made In: Japan 1978-1981

Voltages: 100/110/115/220/230 VAC
50/60 Hz or 24 VDC

Readout: **00000.1** Digital LED

Physical: Cabinet Version:
19.25x7.5x15.7" 37.5 Lbs.
489x191x400mm 17 kg
Rack Version:
19x5.9x14.5" 23.1 Lbs.
480x149x370mm 10.5 kg

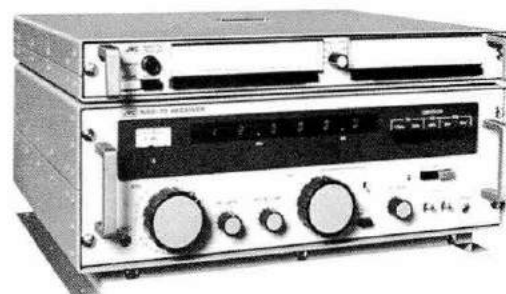
Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	\$2600
Rating:	⑥	⑥

NRD-73

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF-Meter
- BFO ± 2.5 kHz
- Line Out 600 ohms
- RF Gain
- Mute
- Speaker Jack
- 64 Memories
- Dial Lock
- IF Out Jack
- UP/DN Tuning
- 2182 kHz Preset
- Atten. -20 dB
- AGC OFF/ON
- Rack Handles
- Modular Construction

Specifications:

Coverage 100 - 30000 kHz Selectivity 6/3/.5 kHz -6dB. Sensitivity $< 2\mu V$ CW 1.6-30 MHz [^] IF Reject > 60 dB Audio Out 1 W 600 ohms IF 70.455, .455 MHz	Modes AM/MCW/CW/USB/LSB Stability ± 5 Hz for any 15 mins. Image Reject .. > 70 dB Antenna Input . SO-239 75 ohm BFO Range ± 2.5 kHz. Environment ... -10° to $+50^{\circ}C$ 95% Humd.
---	--

Accessories:

NDH-73 64 Ch. Memory NDH-76 80 Ch. Scan. Memory (shown)
Cabinet (shown) NMB-101 FSK Demod

Comments:

Available in heavy cabinet (shown) or for rack mounting. Shown above with optional NDH-73 Memory Unit. Supplied with external SP-101 speaker. [¥400,000]

Made In: Japan 1978-1982

Voltages: 100/110/115/220/230 VAC
50/60 Hz or 24 VDC

Readout: **00000.1** Digital LED

Physical: Cabinet Version:
19.25x7.5x15.7" 37.5 Lbs.
489x191x400mm 17 kg
Rack Version:
19x5.9x14.5" 24.2 Lbs.
489x149x370mm 11 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	\$3200
Rating:	⑥	⑥

NRD-75

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF-Meter
- BFO ± 2.5 kHz
- Modular Construction
- RF Gain
- Mute
- Speaker Jack
- 64 Memories
- Dial Lock
- IF Out Jack
- UP/DN Tuning
- Line Out 600 ohms
- Atten. -20 dB
- AGC OFF/ON
- Rack Handles

Specifications:

Coverage 100 - 30000 kHz Selectivity 6/3/1/.3/___ kHz -6dB. Sensitivity $< 2\mu V$ CW 1.6-30 MHz [^] Audio Out 1 W 600 ohms IF Reject > 60 dB IF 70.455, .455 MHz	Modes AM/MCW/CW/USB/LSB Stability ± 5 Hz for any 15 mins. Environment ... -10° to $+50^{\circ}C$ 95% Humd. BFO Range ± 2.5 kHz. Image Reject .. > 70 dB Antenna Input . 75 ohm
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Accessories:

NDH-73 64 Ch. Memory (shown) NDH-76 80 Ch. Scan. Memory
Cabinet (shown) NMB-101 FSK Demod

Comments:

Available in heavy cabinet (shown) or for rack mounting. Shown above with optional NDH-73 Memory Unit. Supplied with external SP-101 speaker. The NRD-75 is similar to the NRD-73, but includes four supplied filters instead of three and the meter reads both Signal Strength or AF Output. [¥450,000 with NDH-76].

Made In: Japan 1979-1981

Voltages: 100/110/115/220/230 VAC
50/60 Hz or 24 VDC

Readout: **00000.1** Digital LED

Physical: Cabinet Version:
19.25x7.5x15.7" 40 Lbs.
489x191x400mm 18 kg
Rack Version:
19x5.9x14.5" 26.5 Lbs.
483x149x370mm 12 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	\$4100
Rating:	⑥	⑥

NRD-91

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- Dial Lock
- Atten. -20 dB
- S/AF-Meter
- BCB Reject
- Dimmer (var)
- IF Out Jack
- Clarifier
- NB
- BFO
- Rack Handles
- UP/DN Tuning
- AGC OFF/SLO/FST
- Speaker Jack
- Line Out 600 ohms
- Modular Construction

Specifications:

Coverage 90 - 30000 kHz	Modes AM/SSB/CW/[AUX]
Selectivity 6/3/5 kHz -6dB.	Stability $\pm 10 \times 10^{-6}$ per hour
Sensitivity $< 2 \mu V$ CW 1.6-30 MHz [^]	IF Rejection > 60 dB
Image Rej > 60 dB	Environment ... -10° to +50°C 95% Humd.
Audio Out 1 W 4 ohms	BFO Range ± 2 kHz.
IF 70.455 MHz, 455 kHz	Antenna Input . SO239 50-75 ohm

Accessories:

Cabinet (shown) FSK/FAX Crystal Osc.

Comments:

Available in heavy cabinet (shown) or for rack mounting. Supplied with external NVA-92 speaker. Extremely smooth 10 Hz step main tuning (10 kHz/rev.).

Made In: Japan 1983-1995

Voltages: 100/110/200/220 VAC
50/60 Hz or 24 VDC

Readout: **00000.1** Digital LED

Physical: Cabinet Version:
19.25x7.5x12" 25 Lbs.
489x191x305mm 11.5 kg
Rack Version:
19x5.9x11.6" 15.5 Lbs.
480x149x294mm 7 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	\$2400
Rating:	⑥	⑥

NRD-92

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- Dial Lock
- Atten. -20 dB
- S/AF-Meter
- AF Filter
- Dimmer (Var.)
- IF Out Jack
- Speaker Jack
- NB
- BFO
- Rack Handles
- UP/DN Tuning
- Clarifier ± 120 Hz
- AGC OFF/SLO/FST
- Line Out 600 ohm
- Preset 500, 2182 kHz
- Modular Construction

Specifications:

Coverage 90 - 30000 kHz	Modes AM/SSB/CW/FAX/RTTY
Selectivity 6/3/5/ kHz -6dB.	Stability ± 5 Hz for any 15 mins.
Sensitivity $< 2 \mu V$ CW 1.6-30 MHz [^]	IF Rejection > 70 dB
Image Rej > 60 dB	Environment ... -10° to +50°C 95% Humd.
Audio Out 1 W 4 ohms	BFO Range ± 2 kHz.
IF 70.455 MHz, 455 kHz	Antenna Input . SO239 50-75 ohm

Accessories:

Cabinet (shown) NDH-93 Scanning Mem. NDH-95 Memory Timer
YF-455CB 200Hz Filter Y-F455FM 300Hz Filter YF-455DE 1 kHz Filter

Comments: Available in heavy cabinet (shown) or for rack mounting. Supplied with external NVA-92 speaker. Extremely smooth 10 Hz step main tuning (10 kHz/rev.). The Clarifier tunes in 1 Hz steps in all modes except CW and AM. [¥600,000 with NDH-93].

Variants: Model **NRD-92M** was a special type built to comply with the U.K. Home Office and FTZ German specifications (includes LSB/USB rather than just SSB).

Made In: Japan 1983-1995

Voltages: 100/110/115/220/230 VAC
50/60 Hz or 24 VDC

Readout: **00000.01** Digital LED

Physical: Cabinet Version:
19.25x7.5x13.4 33 Lbs
489x190x340mm 15 kg
Rack Version:
19x5.86x13" 23 Lbs.
480x149x332mm 10.5 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	\$3600-3995	\$2500-2700
Rating:	★★★★★	★★★★★

NRD-93



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- Dial Lock
- Atten. 20 dB
- Speaker Jack
- S/AF-Meter
- AF Filter
- Dimmer (Var.)
- IF Out Jack
- 60 Memories
- Analog Pointer Dial
- NB
- BFO ± 2 kHz.
- PBS
- UP/DN Tuning
- Rack Handles
- AGC OFF/SLO/FST
- Line Out 600 ohm
- Preset 500, 2182 kHz
- Clarifier ± 120 Hz
- Modular Construction

Specifications:

Coverage 90 - 30000 kHz
Selectivity 6/3/1/.3/ kHz -6dB.
Sensitivity $< 2\mu V$ CW 1.6-30 MHz[^]
Image Rej > 70 dB
Audio Out 1 W 4 ohms
IF 70.455 MHz, 455 kHz

Modes AM/SSB/CW/FAX/RTTY
Stability ± 2 Hz for any 15 mins.
IF Rejection > 80 dB
Environment ... -10° to +50°C 95% Humd.
Antenna Input . SO239 50-75 ohm

Accessories:

Cabinet (shown) NDH-95 Memory Timer NDH-93 Scanning Memory
YF-455CB 200Hz Filter

Comments:

Available in heavy cabinet (shown) or for rack mounting. Supplied with external NVA-92 speaker. Similar to the NRD-92 but with: one more bandwidth, 60 internal memories, PBT and slightly better rejection and stability specifications.

Made In: Japan 1984-1995

Voltages: 100/110/115/220/230 VAC
50/60 Hz or 24 VDC

Readout: **00000.01** Digital LED

Physical: 19.25x5.8x12" 33 Lbs.
489x149x305mm 15 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: *Passport* 1985/86-1996
Mon. Times July 1995

	New	Used
Price:	\$5900-8000	\$3500-4100
Rating:	★★★★★	★★★★★

NRD-95



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- Dial Lock
- Atten. 20 dB
- Speaker Jack
- S/AF-Meter
- AF Filter
- Dimmer (Var.)
- IF Out Jack
- 60 Memories
- Analog Pointer Dial
- NB
- BFO ± 2 kHz.
- PBS
- UP/DN Tuning
- Rack Handles
- AGC OFF/SLO/FST
- Line Out 600 ohm
- Preset 500, 2182 kHz
- Clarifier ± 120 Hz
- Modular Construction

Specifications:

Coverage 90 - 30000 kHz
Selectivity 6/3/1/.3/ kHz -6dB.
Sensitivity $< 2\mu V$ CW 1.6-30 MHz[^]
Image Rej > 70 dB
Audio Out 1 W 4 ohms
IF 70.455 MHz, 455 kHz

Modes AM/SSB/CW/FAX/RTTY
Stability ± 2 Hz for any 15 mins.
IF Rejection > 80 dB
Environment ... -10° to +50°C 95% Humd.
Antenna Input . SO239 50-75 ohm

Accessories: NDH-95 Memory Timer
ISB Option NCG-95 Telecontroller
Cabinet (shown) NDH-93 Scan. Mem.

Comments:

Available with optional cabinet (shown) Supplied with external NVA-92 speaker. Similar to the NRD-93 but with option for ISB and for optional telecontrol via the NCG-95 Telecontroller (shown above).



Made In: Japan 1983-1990

Voltages: 100/110/115/220/230 VAC
50/60 Hz or 24 VDC

Readout: **00000.01** Digital LED

Physical: Cabinet Version:
19.25x7.5x15.7" 40 Lbs.
489x191x400mm 18 kg
Rack Version:
19x5.9x14.5" 26.5 Lbs.
489x149x370mm 12 kg

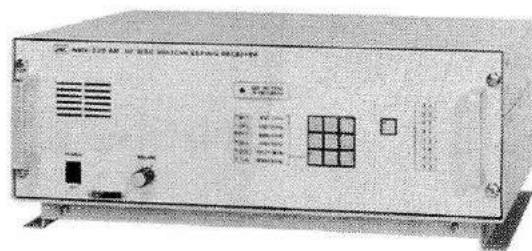
Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

NRD-220

Fixed Frequency Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- BFO
- AGC OFF/ON
- B.I.T.E.
- Speaker
- Speaker Jack
- Rack Handles

Specifications:

Coverage Fixed. See Comments Modes GMDSS RTTY
Stability ± 10 Hz
Audio Out 1 W 4 ohms
Other specifications unknown.

Comments:

This is a fixed channel receiver designed for the marine market. It receives the teletype DSC GMDSS distress/calling frequencies: 2187.5, 4207.5, 6312, 8414.5, 12577 and 16804.5 kHz.

Variants:

JRC also offers the smaller model **NRC-210** that covers only 2187.5 kHz.

Made In: Japan 1993-1996

Voltages: 100/110/115/220/230 VAC
50/60 Hz 100W

Readout: None

Physical: Cabinet Version:
19.25x7.51x12" 30.8 Lbs.
489x191x305mm 14 kg
Rack Version:
19x5.86x12" 20.9 Lbs.
480x149x290mm 9.5 kg

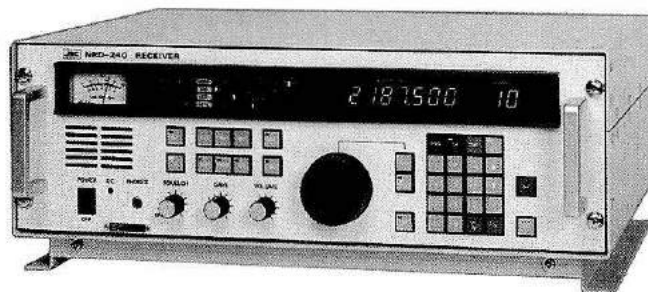
Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

NRD-240

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF-Meter
- NB
- AGC OFF/SLO/FST
- RF Gain
- BFO ± 10 kHz
- Scan/Sweep
- Line Out 600 ohms
- Mute
- Dimmer
- PBS
- Preset 2182 kHz
- Dial Lock
- IF Out Jack
- UP/DN Tuning
- Clarifier ± 200 Hz
- Atten. -20 dB
- Rack Handles
- 100 Memories
- Modular Construction
- Speaker
- B.I.T.E.
- RS-423A Control
- GMDSS Certif.
- 3 Tuning Rates
- Dial Lock
- Squelch

Specifications:

Coverage 90 - 30000 kHz Modes AM/LSB/USB/CW/FAX/RTTY
Selectivity 6/3/1/.3/ kHz -6dB. Stability 0.3 PPM
Sensitivity $< 2\mu\text{V}$ CW 1.6-30 MHz[^] IF Rejection > 80 dB
Image Rej > 70 dB BFO Range ± 2 kHz.
Audio Out 1 W 8 ohms Environment ... -15° to +55°C 93% Humd.
IF 70.455 MHz, 455 kHz Antenna Input . SO239 50 ohm

Accessories:

Cabinet (shown) NVA-92L External Speaker NDH-95 Memory Timer

Comments:

Available in heavy cabinet (shown) or for rack mounting. Operates on AC or DC supply by automatic switching. Memories store: frequency, mode, bandwidth, attenuator and AGC settings. The NRD-240 is the current flagship of the JRC HF receiver line. It is designed in compliance with GMDSS carriage requirements.

Made In: Japan 1990-1997

Voltages: 100/110/115/220/230 VAC
50/60 Hz or 24 VDC 50W

Readout: **00000.001** Digital LED

Physical: Cabinet Version:
19.25x7.5x12" 34.1 Lbs.
489x191x305mm 15.5 kg
Rack Version:
19x5.8x11.4" 24.2 Lbs
480x149x290mm 11 kg

Status: Active Manufacturer
Active Model

Rarity: Extremely Scarce

Reviews: Passport 1991

	New	Used
Price:	\$8000	\$4000-4800
Rating:	★★★★★	★★★★★



Japan Radio Co., Ltd.

NRD-505

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Analog Subdial
- AGC OFF/FST/SLO
- RF Gain
- BFO ± 2.5 kHz
- RIT ± 2.5 kHz
- Line Out 600 ohms
- Mute Jack
- NB
- IF Out Jack 455
- VFO Out Jack
- Sidetone Jack
- Speaker Jack
- Attenuator -20 dB
- Analog sub-dial
- Modular Design
- Two Tuning Speeds

Specifications:

Coverage 100 - 30000 kHz
Selectivity 4.4/2/___ kHz -6dB.
Sensitivity $< .5\mu V$ 1.6-30 MHz SSB
Image Rej > 70 dB
Audio Out 1 W 4 ohms

Modes AM/LSB/USB/CW/RTTY
Stability < 100 Hz/hr. after warm-up
IF Rejection > 70 dB
IF 70.455 MHz, 455 kHz.
Antenna Input . SO239 50-75 ohm

Circuit Complement:

66 Integrated circuits, 18 FETs, 54 transistors and 103 diodes.

Accessories:

NVA-505 Speaker CD4-8 4 Channel Preset CW Filter 600 Hz.
CGA-26 Transceive VFO Converter

Comments:

Built to the highest construction standards. Matches the NSD-500 Transmitter. The optional CD48 four channel memory option mounts inside the NRD-505. This four channel memory stores frequency only. The memory channels are selected by push switches. Requires a speaker. Reportedly less than 1000 made, very collectable.

Made In: Japan 1977-1979

Voltages: 100/115/200/230 VAC
50/60 Hz 50W

Readout: **00000.1** Digital LED

Physical: 13.4x5.5x11.8" 22 Lbs.
340x140x300mm 10 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: WRTH 1980

	New	Used
Price:	\$2250-2275	\$800-880
Rating:	★★★★★	★★★★★



Japan Radio Co., Ltd.

NRD-515

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- PBT ± 2 kHz
- AGC OFF/FST/SLO
- RF Gain
- BFO ± 2 kHz
- NB
- UP/DN Tuning
- Mute Jack
- RIT ± 3 kHz
- Line Out Jack
- BC (MW) Tune
- Ext. Spkr Jack
- Monitor
- Dial Lock
- Attenuator -10/20 dB

Specifications:

Coverage 100 - 34000 kHz
Selectivity 6/2.4/___ kHz -6dB.
Sensitivity $< .5\mu V$ 1.6-30 MHz SSB
Image Rej > 70 dB
Audio Out 1 W 4 ohms

Modes AM/LSB/USB/CW/RTTY
Stability < 50 Hz/hour after warmup
IF Rejection > 70 dB
IF 70.455 MHz, 455 kHz.
Antenna Input . SO239

Accessories:

CFL-230 300Hz Filter CFL-260 600Hz Filter NVA-515 Speaker
NCM-515 Keypad NDH-515 Memory 24 Ch. NDH-518 Memory 96 Ch.

Comments: Robustly built and straight-forward to operate, this receiver remains popular with utility DXers, tropical band enthusiast and general shortwave listeners. The '515' has a nearly cult-like following. It was the first JRC priced to enter the consumer market and enjoyed wide popularity. Matches the NSD-515 transmitter. The BC Tune function (on the BFO knob) serves as a manual preselector on the MW band. Requires a speaker. The optional external memory units store only frequency. Clean lines, easy operation, a solid feel and outstanding performance come together in this radio. Excellent for radioteletype, fax and Morse code.

Made In: Japan 1979-1986

Voltages: 100/117/220/240 VAC
50/60 Hz 50W

Readout: **00000.1** Digital LED

Physical: 13.4x5.5x11.8" 16.5 Lbs.
340x140x300mm 7.5 kg

Status: Active Manufacturer
Inactive Model

Rarity: Common

Reviews: WRTH 1982
Passport 1985/86, 1987
QST November 1981
Radio Elec. World May 1982

	New	Used
Price:	\$900-1490	\$650-680
Rating:	★★★★★	★★★★★

NRD-525

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute Jack
- Line Out Jack
- Scan & Sweep
- UP/DN Tune
- S-Indicator
- BFO ± 2 kHz
- AGC (3 Pos.)
- Ext. Spkr Jack
- Dial Lock
- Keypad
- PBS ± 1 kHz
- Speaker
- 200 Memories
- Timer Terminals
- Dimmer (4 Pos.)
- Side Tone Jack
- NB
- Squelch
- RIT ± 5 kHz
- 24 Hr. Clock/Timer
- Notch-30 dB
- Modular Design
- Tone
- ANL

Specifications:

Coverage 90 - 34000 kHz
Selectivity 4/2/_/_ kHz -6dB.[12FM]
Sensitivity <.5 μ V 1.6-30 MHz SSB
Image Rej >70 dB 1.6-30 MHz
Audio Out 1 W 4 ohms

Modes AM/SSB/CW/FAX/FM/RTTY
Stability ± 3 PPM
IF Rejection >70 dB 1.6-30 MHz
Antenna Input . SO239 and Terminals
Dyn. Range >100 dB

Accessories:

CFL-231 300Hz Filter CFL-232 500Hz Filter CFL-233 1000Hz Filter
CGD-135 Hi-Stability CFL-218A 1800Hz Filter CMH-530 RTTY Unit
CMH-532 RS232 Intfc. NVA-88 Speaker CMK-165 VHF/UHF Conv.
6ZCJD00139 Printer Cable for CMH530

Comments: The memories store: frequency, mode, bandwidth, AGC and ATT settings. The optional CMK165 Converter adds: 34-60, 114-174 and 423-456 MHz in all modes. CMH530 internal RTTY demod unit decodes Baudot at 45 and 50 baud to the parallel print output port on back or into the optional CMH532.

Made In: Japan 1986-1992

Voltages: 100/120/220/240 VAC
50/60 Hz and 12-16 VDC

Readout: **00000.01** Digital Flur.

Physical: 13x5.2x11.25" 19 Lbs.
330x132x285mm 8.5 kg

Status: Active Manufacturer
Inactive Model

Rarity: Abundant

Reviews: *Passport* 1987-1992
WRTH 1987
QST July 1988
R.D.I. White Paper

	New	Used
Price:	\$999-1249	\$600
Rating:	★★★★★	★★★★★

NRD-535

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- Line Out Jack
- Scan & Sweep
- BFO ± 2 kHz
- S-Meter
- ANL
- AGC (3 Pos.)
- Ext. Spkr Jack
- Dial Lock
- Modular Design
- PBS ± 1 kHz
- Notch -40 dB
- 200 Memories
- Timer Terminals
- Keypad
- NB-1 & NB-2
- Tone
- RS-232 Port
- 24 Hr. Clock/Timer
- Dimmer (4 Pos.)

Specifications:

Coverage 100 - 30000 kHz
Selectivity 12/4/2/_ kHz -6dB.
Sensitivity <.1 μ V 1.6-30 MHz SSB
Image Rej >70 dB 1.6-30 MHz
Audio Out 1 W 4 ohms

Modes AM/SSB/CW/FAX/FM/RTTY
Stability ± 10 PPM (± 2 PPM >1 hour)
IF Rejection >70 dB 1.6-30 MHz
Antenna Input . SO239 and Terminals

Accessories:

NVA-319 Filter/Spkr
CFL-231 300Hz Filter CFL-232 500Hz Filter CFL-233 1000Hz Filter
CGD-135 Hi-Stability CFL-218 1800Hz Filter CFL-251 2400Hz Filter
CFL-243 BWC CMF-78 ECSS Unit CMH-530 RTTY Unit

Comments: 1 Hz tuning resolution and 10 Hz display resolution. An outstanding general coverage receiver. [¥150,000].

Variants: Model **NRD-535V** included a factory installed CMF-78. Model **NRD-535D** includes: CFL243, CMF78 and CFL233. Units after S/N 56005 had BWC operation in SSB and AM modes and on the Inter. and Wide filters.

Made In: Japan 1991-1997

Voltages: 100/120/220/240 VAC
50/60 Hz and 12VDC

Readout: **00000.01** Digital Flur.

Physical: 13x5.2x11.25" 20 Lbs.
330x132x285mm 9 kg

Status: Active Manufacturer
Active Model

Rarity: Common

Reviews: *Passport* 1992-1997
R.D.I. Whitepaper
WRTH 1992
WRTH Buyer's Guide 1993
Mon. Times October 1991
Pop Comm December 1991
ODXA July 1991

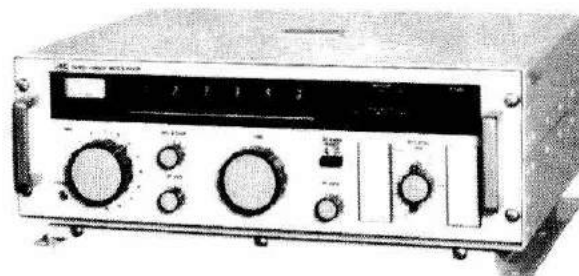
	New	Used
Price:	\$1200	\$780
Rating:	★★★★★	★★★★★



Japan Radio Co., Ltd.

NRD-1000

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- AGC OFF/ON
- RF Gain
- Mute
- 14 Presets
- Line Out 600 ohms
- Dial Lock
- IF Out Jack
- Rack Handles
- Modular Construction
- Atten. -20 dB

Specifications:

Coverage 100 - 30000 kHz Modes AM/SSB/CW/MCW
Other specifications unknown.

Accessories:

Cabinet (shown)

Comments:

Double conversion on some frequencies.

Made In: Japan 1981-1984

Voltages: 100/110/115/220/230 VAC
50/60 Hz

Readout: **00000.1** Digital LED

Physical: Cabinet Version:
19.25x7.5x15.7" 35.2 Lbs.
489x191x400mm 16 kg
Rack Version:
19x5.8x12.6" 22 Lbs.
480x149x320mm 10 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

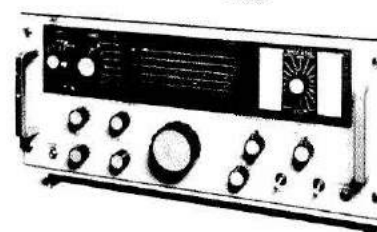
	New	Used
Price:	①	⑤
Rating:	⑥	⑥



Japan Radio Co., Ltd.

NRD-1003A

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- BFO
- AGC OFF/ON
- Modular Construction
- RF Gain
- Mute
- Speaker Jack
- 17 Presets
- Atten. -20 dB
- Rack Handles

Specifications:

Coverage 100 - 28000 kHz Modes AM/CW/MCW/LSB/USB
Other specifications unknown.

Accessories:

Cabinet (shown)

Comments:

Available in heavy cabinet (shown) or for rack mounting.

Made In: Japan 1978

Voltages: 100/110/117/220 VAC
50/60 Hz or 24 VDC 2A

Readout:  Analog

Physical: Cabinet Version:
19.25x9.5x15.7" 40 Lbs.
489x240x400mm 18 kg
Rack Version:
19x7.83x14.5" 26.5 Lbs.
480x199x370mm 12 kg

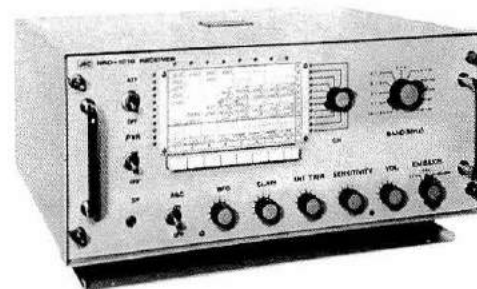
Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

NRD-1010

Fixed Frequency Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- BFO
- AGC OFF/ON
- Antenna Trimmer
- RF Gain
- Mute
- Speaker Jack
- Atten. -20 dB
- Rack Handles
- Fine Tuning

Specifications:

Coverage 88 Ch. (1.6 - 28 MHz) Modes AM/CW/SSB
Selectivity 6/2.4 kHz -6dB. Image Ratio >40 dB
Sensitivity <2μV CW IF 14.5-15.5, 3-4, .455 kHz
Audio Out 1 W 4 ohms

Comments:

This is a fixed channel receiver designed for the marine market. The 88 crystal positions are selected by pressing one of the 8 push buttons along the horizontal access and then rotating the 11 position switch on the vertical axis. The band range switch must be manually selected for preselection purposes, then the Antenna Trimmer must be adjusted. The associated frequency or channel number can be written on the paper chart mounted on the front of the receiver. The NRD-1010 may also be rack mounted.

Made In: Japan 1974-1976

Voltages: 100/220 VAC
50/60 Hz 100W

Readout: None

Physical: 19x7.8x16.1" 39.7 Lbs.
480x199x410mm 18 kg

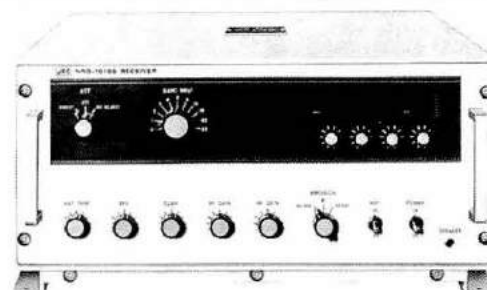
Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

NRD-1010S

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- BFO
- AGC OFF/ON
- Antenna Trimmer
- RF Gain
- Mute
- Speaker Jack
- BCB Reject
- Atten. -20 dB
- Rack Handles
- Fine Tuning

Specifications:

Coverage 100 - 26000 kHz Modes AM/CW/SSB
Selectivity 6/2.4 kHz -6dB. Image Ratio >40 dB
Sensitivity <2μV CW 1-26 MHz IF 14.5-15.5, 3-4, .455 kHz
Audio Out 1 W 4 ohms

Accessories:

Cabinet (shown)

Comments:

The JRC NRD-1010S is the synthesized version of the NRD-1010. Instead of selecting fixed crystal controlled frequencies, a synthesizer has been added. The frequency is selected by rotary knobs located below the digital display. Frequency selection may be made down to 100 Hz. Range selection must still be made via the 11 position band switch. This model is double conversion on some frequencies.

Made In: Japan 1977

Voltages: 100/220 VAC
50/60 Hz 100W

Readout: 00000.1 Digital LED

Physical: 19x7.8x14.5" 39.7 Lbs.
480x199x370mm 18 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

32 Kenwood

Kenwood's forerunner company, Kasuga Musen Denki Shokai Limited, was founded in 1946. In 1952 the first communications grade receiver was produced. This was the 6 tube Trio model 6R-4. In 1955 the company began the mass production of audio, communications and test equipment. The Trio model 9R4J was a nine tube receiver kit that featured an S-Meter, BFO and covered from 550 to 30000 kHz.

In 1960 the Trio Company changed its name to Trio Limited. The assembled model 9R-59 General Coverage Receiver was introduced in 1961. Trio successfully manufactured this and other models for other private label firms such as Lafayette. In 1963 the overseas brandname of Kenwood is established for hi-fi equipment in Los Angeles.

In 1975 Trio-Kenwood Communications Inc. was established in Gardena, California to market amateur radio equipment in the United States.

In 1986 the company changed its name to Kenwood Corporation.

Kenwood hit three home runs in a row with the R-1000, R-2000 and R-5000 receivers.

Trio Corporation

Chofu-Chidoricho 74
Ohta-ku, Tokyo,
Japan

Trio-Kenwood Communications

116 East Alondra
Gardena, CA 90248 1976-1980

Trio-Kenwood Communications

1111 West Walnut
Compton, CA 90220 1981-1986

Kenwood Communications

2201 E. Dominguez St.
Long Beach, CA 90801 1987-1997

TRIO

9R-59

General Coverage Communications Receiver
Single Conversion Superheterodyne. 9 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- Mute Line
- Bandsread
- Dial Light
- RF Gain
- Standby
- Antenna Trimmer
- ANL
- BFO
- AVC/MVC
- Q-Multiplier

Specifications:

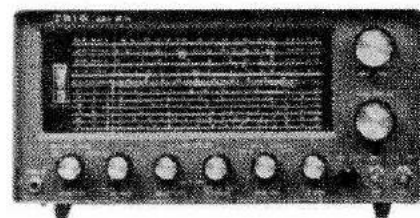
Coverage550 - 30000 kHz. Modes AM/CW
Sensitivity 1 μ V 10 dB S/N Antenna Input . Terminals

Circuit Complement:

One RF and IF Stages.

Comments:

Bandsread for 80 - 10 meters. The Trio 9R-59 appears to possibly be the same as Lafayette model HA-230.



Made In: Japan 1961-1962

Voltages: ?

Readout:  Analog

Physical: ?

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

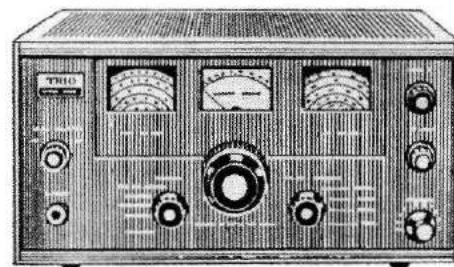
	New	Used
Price:	\$160	\$75-80
Rating:	⑦	⑦

TRIO

9R-59DE

General Coverage Communications Receiver

Single Conversion Superheterodyne. 8 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- Mute Line
- Bandsread
- Dial Lamp
- RF Gain
- Standby
- Antenna Trimmer
- ANL
- BFO

Specifications:

Coverage 550 - 30000 kHz. Modes AM/CW-SSB
Sensitivity 2 μ V 10 dB S/N IF 455 kHz
Selectivity 4 kHz -6dB.
Audio Out 1.5W 8 ohms 10% dist. Antenna Input . Terminals

Circuit Complement:

6BA6 RF Amp, 6BA6 RF Amp, 6BE6 Mixer, (2) 6AQ8 Oscillator/BFO/AF Amp, 6AQ5 AF Output plus 7 diodes.

Accessories:

SP-5D Speaker

Comments:

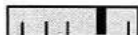
Ranges: .55-1.6, 1.6-4.8, 4.8-14.5 and 10.5-30 MHz. Bandsread on 80, 40, 20, 15 and 10 meters.

Variants:

Model 9R-59DS.

Made In: Japan 1968-1969

Voltages: 115/230 VAC 50/60 Hz
45W

Readout:  Analog

Physical: 15x7x10" 17.6 Lbs.
380x180x260 mm 8 Kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	\$250-270	\$150-170
Rating:	⑦	⑦

TRIO

ER-202

General Coverage Communications Receiver

Single Conversion Superheterodyne. 14 Tubes



Features:

- 1/4" Head. Jack
- S-Meter
- Bandsread
- Crystal Cal. 100 kHz
- RF Gain
- ANL
- BFO
- Q-Multiplier
- Record Jack
- MVC/AVC

Specifications:

Coverage 550 - 30000 kHz +2M Modes AM/CW/SSB
Selectivity 10 kHz -60dB. IF 455 kHz
Sensitivity <3 μ V Antenna Input . Terminals
Audio Out 1.5 W 8 ohms

Circuit Complement:

6AQ8 2M RF Amp, 6AU6 2M Mixer, 6AQ8 6M Oscillator, 6BA6 RF Amp, 6BE6 Mixer, 6AQ8 Oscillator Buffer, (2) 6BA6 IF Amp, 6AL5 AM Detector/ANL, 6BE6 Product Detector, 6AQ8 AF Amp/BFO, 6AQ5 AF Amp, 6AQ8 Q-Multiplier/Calibrator, 6CA4 Rectifier, 0A2 Voltage Regulator and 1N60 Crystal Calibrator.

Accessories:

Crystal for Calibrator

Comments:


Ranges: .54-1.6, 1.6-4.8, 4.8-14.5, 10.5-30 and 142-148 MHz.

Variants:

This model was sold in the U.S.A. as the Lafayette HE-80. The Lafayette HE-80 version included 6 meters instead of 2 meters and ran from 110 VAC rather than 220 VAC.

Made In: Japan 1963-1964

Voltages: 220 VAC 50/60 Hz
65W

Readout:  Analog

Physical: 17x7.5x10" 24 Lbs.
430x190x260mm 10.7kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Extremely Scarce

	New	Used
Price:	\$140	\$65-70
Rating:	★★	⑦

TRIO

JR-500SE

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 7 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S-Meter
- Preselector
- Standby
- RF Gain
- ANL
- Mute Line
- AVC
- BFO
- Line Out 500 ohms

Specifications:

Coverage Ham Bands Modes AM/CW-SSB
 IF 8.5-9.1 MHz, 455 kHz Image Rej >60 dB
 Audio Out 1W 8/500 ohms Antenna Input . Terminals (hole for SO239)

Circuit Complement:

6BZ6 RF Amp, 6BL8 1st Mixer/Local Osc, 6BE6 2nd Mixer, 6BA6 1st IF, 6BA6 2nd IF, 1N60 AM Detector, SW05S ANL, 6AQ8 Product Detector/BFO, 6BM8 AF Amp/PA, 2SC185 Buffer and 2SC185 VFO.

Accessories:

SP-5D Speaker


Comments:

Dial accuracy is ± 1 kHz. Tuning is at 50 kHz per revolution of main tuning knob. Dark gray metal cabinet with dark green panel. See Allied A2516.



Made In: Japan 1969-1970

Voltages: 115/230 VAC

Readout:  Analog

Physical: 13x7x10" 16 Lbs.
362x163x322mm 7.3 Kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

Reviews: *Radio Comm.* June 1969

	New	Used
Price:	①	⑤
Rating:	★★★	⑦

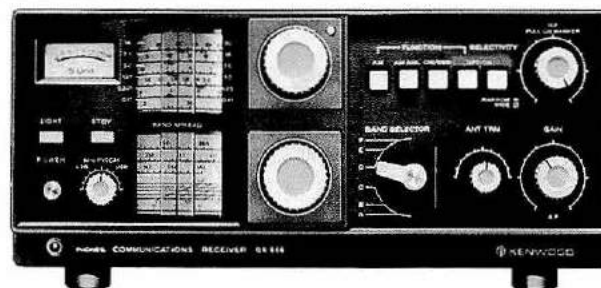


KENWOOD

QR-666

General Coverage Communications Receiver

Double Conversion Superheterodyne. Solid State.



Features:

- S-Meter
- Bandsread
- 1/4" Head. Jack
- Telescopic Ant.
- Light
- RF Gain
- Standby Switch
- Antenna Trimmer
- ANL
- BFO
- Calibrator 500 kHz
- Mute Line
- Dial Light
- Dial Light Switch

Specifications:

Coverage 170-410 & 525-30000 kHz. Modes AM/CW-SSB
 Selectivity 5/2.5 kHz -6dB. Stability See Note 1
 Sensitivity 1-3 μ V (2-30 MHz). Audio Out 1.5W 8 ohms 10% distort.
 Image Ratio ...>70 dB (2-12 MHz). Antenna Input . SO-239 & terminals.

Circuit Complement:

4 FETs, 16 transistors and 24 diodes.

Accessories:

FM/IF FM Band Option 87.5-108 MHz (internal board).
 QR-6MK Calibrator 500 kHz

Comments:

Note 1. Stability: 2 MHz <10 kHz, 5 MHz <15 kHz, 12 MHz <20 kHz, 24 MHz <25 kHz. Ranges: .17-.41, .525-1.25, 1.25-3, 3-7.5-18 and 18-30 MHz. Amateur bandsread: 3.5-4, 7-7.5, 14-14.6, 21-21.5 and 28-30 MHz. May be run from eight D cells. An optional SWL bandsread drum was also offered.

Made In: Japan 1974-1976

Voltages: 100/117/220/240 AC or
12~15 VDC or 8 D cells.

Readout:  Analog

Physical: 14.25x6.4x12.8" 17 Lbs.
362x163x322mm 7.3 Kg

Status: Active Manufacturer
Discontinued Model

Rarity: Scarce

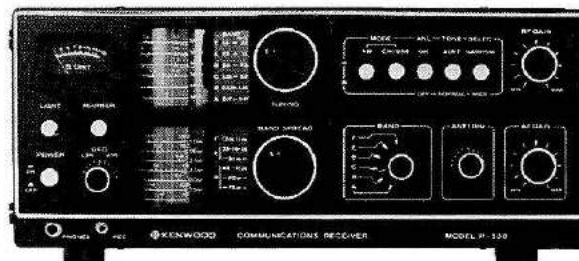
Reviews: *WRTH* 1976

	New	Used
Price:	\$129	\$60-80
Rating:	★★★	★



R-300

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Bandspread
- Antenna Trimmer
- Dial Lamp
- RF Gain
- Record Jack
- Ext. Spkr Jack
- ANL
- BFO
- Tone (2 Pos.)
- Calibrator 500 kHz
- Speaker 4"

Specifications:

Coverage 170-410 & 525-30000 kHz. Modes AM/CW-SSB
Selectivity 5/2.5 kHz -6dB. Stability *unspecified*
Sensitivity 1-1.5 μ V (2-30 MHz). IF 4.034 MHz, 455 kHz
Image Ratio... >40-55 dB (2-12 MHz). Antenna Input . Terminals. (hole for SO239)
Audio Out 1.5W 10% distortion

Comments:

Ranges: .17-.41, .525-1.25, 3-7.5, 7.5-18 and 18-30 MHz. Two different bandsread drums were developed. The amateur version was shipped to some areas and the shortwave version to other areas. Amateur bandsread: 3.5-4, 7-7.5, 14-14.6, 21-21.5 and 28-30 MHz. Shortwave bandsread: 3.82-4, 7-7.5, 9.4-9.8, 11.7-12, 15-15.5, 17.6-18, 21.4-21.8 and 25.6-26.2 MHz. The R-300 may be run from eight D cells. These cells are accessible through a trap door on the bottom of the receiver.

Made In: Japan 1976-1979

Voltages: 117/220 AC 8W or
12~16 VDC or 8 D cells.

Readout  Analog

Physical: 14.25x6.4x12.8" 17 Lbs.
362x162x325mm 7.7 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Scarce

Reviews: 73 June 1977

	New	Used
Price:	\$239	\$80-95
Rating:	★★★	★★



R-599

Amateur Band Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Standby
- AGC SLO/MED/FST
- RF Gain
- Preselector
- R.I.T. \pm 2 kHz
- Calibrator 100/25 kHz
- Squelch
- NB

Specifications:

Coverage 160-10M ham bands. Modes CW/LSB/USB/AM/FM
Selectivity 5/2.5/.5 kHz-6dB.[25 FM] Stability \pm 100Hz after 15 mins.
Sensitivity <.5 μ V (160-10M). IF Rejection >50 dB
Audio Out 1W 8 ohms 10% dist. Image Ratio >50 dB
Antenna Input SO-239

Circuit Complement:

2 Integrated circuits, 8 FETs, 30 transistors and 53 diodes.

Accessories:

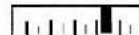
S-599 Speaker CC-29 2M Converter CC-69 6M Converter
FM-599D¹ FM

Comments: Matches T-599A Transmitter. Dial accuracy \pm 1 kHz. Original ranges: 1.8-2.3, 3.5-4.0, 7-7.5, 14-14.5, 21-21.5 and 28-29.7 plus the CB band of 26.8-27.4. After March 1978 the CB band was removed and labeled AUX.

Variants: The model **R-599A** changed the dial skirt from 25 kHz/rev. to 100 kHz/rev., had VFO light and Noise Blanker. The crystal filters was changed from 4 to 8 pole. The later U.S. model **R-559D** 1976 \$459-500 and European model **R-599S** were darker in color. The R-559D was reviewed CQ March 1978.

Made In: Japan 1970-1975

Voltages: 100/120/220/240 AC 15W
or 12~15 VDC

Readout:  Analog Lin.

Physical: 10.6x5.5x12.4" 13 Lbs.
269x140x315mm 6 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: QST October 1974
QST June 1971

	New	Used
Price:	\$298-459	\$100-120
Rating:	★★★★	★★



R-600

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Tone Control
- Attenuator -20 dB
- Noise Blanker
- Mute Terminal
- Carrying Handle
- Record Jack
- Speaker

Specifications:

Coverage 150 - 30000 kHz.
Selectivity 6/2.7 kHz -6dB.
Sensitivity <.5µV (2-30 MHz).
Audio Out 1.5W 10% distortion
Antenna Input SO-239 & Terminals.
Modes AM/USB/LSB-CW
Stability ±2 kHz
IF Rejection >60 dB
Image Ratio >60 dB

Accessories:

DCK-1 12VDC Kit

Comments:

A communications receiver for the casual listener. Operates with thirty 1 MHz bands. Lacks stability found in models R-1000 and up. Some European production units cover 150 - 26000 kHz.

Made In: Japan 1982-1985

Voltages: 100/120/220/240 AC
50/60 Hz

Readout: **00001.** Digital LED

Physical: 12.8x4.5x7.8" 10 Lbs.
325x114x198 4.5 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common
Reviews: *WRTH* 1983
Passport 1987
Mon. Times May 1983

	New	Used
Price:	\$329-399	\$180-250
Rating:	★★★	★★★



R-820

Amateur Band Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- V.B.T.
- Noise Blanker
- R.I.T.
- I.F. Shift
- Notch Filter
- Preselector
- Tone Control
- Mute
- 4 Fixed Channels
- Atten.-10/20/30/40 dB
- S-Meter
- Monitor Level
- Calibrator 25 kHz
- Analog sub-dial

Specifications:

Coverage 160-10M Ham Bands
Selectivity 6/2.4/ /_ kHz -6dB.
Sensitivity <.25µV
Ant. Jack SO-239
Notch Attn 50 dB or greater
Antenna Input SO-239
Modes AM/CW/LSB/USB/RTTY
Stability ±1 kHz or better.
IF Rejection >80 dB¹
IF Rejection >50 dB²
¹(160, 80, 40, 20, 15, 10 & 19M) ²(49, 31, 25 & 16M)

Circuit Complement:

40 Integrated circuits, 34 FETs, 89 transistors and 170 diodes.

Accessories:

SP-820 Speaker YG-88A 6kHz AM Filter YG-455C 500Hz CW Filter
VFO-820 VFO YG-88C 500Hz CW Filter YG-455CN 250Hz CW Filter

Comments:

Supplied amateur band coverage: 1.8-2, 3.5-4, 7-7.5, 14-14.5, 21-21.5 and 28-30 MHz. Supplied shortwave broadcast band coverage: 5.9-6.4, 9.4-9.9, 11.5-12, 15-15.5 and 17.7-18.2 MHz. Matches the TS-820S transceiver. An excellent receiver but inexpensive on the used market because it is not general coverage.

Made In: Japan 1978-1979

Voltages: 100/120/220/240 VAC
50/60 Hz or 12-15 VDC

Readout: **00000.1** Digital Phs.

Physical: 13.2x6x14.5" 26.4 Lbs.
336x167x397mm 12 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Scarce

Reviews: *QST* July 1979

	New	Used
Price:	\$1049	\$250-320
Rating:	★★★★	★★★★



R-1000

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Speaker 4"
- Atten. -20/40/60 dB
- Noise Blanker
- Tone Control
- Record Jack
- Recorder Activation
- Dimmer
- Tilt-Carry Handle
- 12 Hour Clock-Timer
- Analog Sub-dial

Specifications:

Coverage 200 - 30000 kHz. Modes AM/USB/LSB/CW
Selectivity 12/6/2.7 kHz -6dB. Stability ± 2 kHz, ± 300 Hz/30 min.
Sensitivity $< 5\mu V$ SSB 2-30 MHz. IF Rejection > 70 dB (1.8-30 MHz).
Image Ratio > 60 dB (1.8-30 MHz). IF 48 MHz, 455 kHz
Audio 1.5W 8 ohms 10% dist. Antenna Input . SO-239 & Terminals.

Circuit Complement:

40 Integrated circuits, 11 FETs, 64 transistors and 71 diodes.

Accessories:

SP-100 Speaker (shown) DCK-1 DC Kit

Comments:

A solid performer. Very stable after warm-up and even suitable for quality RTTY reception. The AVC release time is a bit long. The somewhat ugly carry handle may be swivelled down to angle the receiver, or swung up over the top of the receiver. Shown above with optional SP-100 Speaker. A good receiver.

Made In: Japan 1979-1985

Voltages: 100/120/220/240 VAC
50/60 HZ 20W

Readout: **00001.** Digital Phs.

Physical: 12.8x4.5x8.6" 12 Lbs.
300x115x218mm 5.5 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Abundant

Reviews: WRTH 1980
Passport 1987
QST December 1980
Commun. World 1981

	New	Used
Price:	\$430-499	\$280-310
Rating:	★★★★	★★★★

KENWOOD

R-2000

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- 10 Memories
- Memory Scan
- Sweep
- 3 Tuning Rates
- 4" Speaker
- Noise Blankers
- Atten. -10/20/30 dB
- Dial Lock
- AGC FAST/SLOW
- Record Jack
- Record Contacts
- Dimmer
- Tone Control
- Carrying Handle
- Mute line
- S-Meter
- Tilt Bar
- Squelch
- Dual Clock-Timer 24 Hr.

Specifications:

Coverage 150 - 30000 kHz. Modes AM/FM/USB/LSB/CW
Selectivity 6/2.7/_ kHz -6dB [15 FM] Accuracy $\pm 10 \times 10^{-6}$ or better.
Sensitivity $< 4\mu V$ CW (2-30 MHz) IF Rejection > 70 dB (1.8-30 MHz).
Stability ± 50 Hz after 1 hour Image Ratio > 70 dB (1.8-30 MHz).
IF 45.85, 9.85, 455 MHz Antenna Input . SO-239 & Terminals.
Audio 1.5W 8 ohm

Accessories:

SP-430 Speaker YG-455C 500Hz CW Filter VC-10 VHF Converter
DCK-1 DC Kit SP-100 Speaker

Comments: A good value. A popular modification was the removal of the tone control in favor of an R.I.T. to decrease the VFO tuning increment from the supplied 50 Hz. This made the R-2000 very suitable for RTTY reception. No keypad entry. Memories store: frequency and mode. The optional VC-10 Internal Converter covers 118-174 MHz in all modes with full frequency read-out.

Variants: Sold as **Trio R-2000** in the U.K.

Made In: Japan 1983-1992

Voltages: 100/120/220/240 AC

Readout: **00000.1** Digital Phs.

Physical: 14.8x4.5x8.3" 12 Lbs.
376x114x211mm 5.4 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Abundant

Reviews: WRTH 1983
WRTH Buyer's Guide 1993
Passport 1987-1994
Radio Elec. World Feb. 1986
Buyer's Guide to Amateur R.

	New	Used
Price:	\$499-699	\$380-450
Rating:	★★★★	★★★★

KENWOOD

R-5000

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Dual VFOs
- Dial Lock
- Mute
- Speaker 4"
- Carrying Handle
- 100 Memories
- I.F. Shift
- AGC (2 Pos.)
- S-Meter
- Tone Control
- Memory Scan
- Notch Filter
- Keypad Entry
- Record-out Jack
- Squelch
- Band Scan
- Atten. -10/20/30 dB
- Dual Noise Blankers
- Record Activation
- Dual 24 Hr. Clock Timer

Specifications:

Coverage 100 - 30000 kHz. Modes AM/FM/USB/LSB/CW
Selectivity 6/2/_/_ [12 FM] kHz -6dB. Accuracy $\pm 10 \times 10^{-6}$ or better.
Sensitivity <.25 μ V CW 1.8-30 MHz. IF Rejection >70 dB (1.8-30 MHz).
IF 58.115, 8.83, .455 MHz. Image Ratio >70 dB (1.8-30 MHz).
Audio 1.5 W 8 ohm Antenna Input . SO-239 & Terminals.

Accessories:

SP-430 Speaker YK-88A1 6kHz AM Filter YK-88SN 1.8kHz SSB Filter
DCK-2 DC Kit YK-88C 500Hz CW Filter YK-88CN 270Hz CW Filter
VS-1 Voice Synthz. IF-232/IC-10 Interface VC-20 VHF Converter

Comments:

The 2 x 5 keypad format takes getting use to. Memories store: frequency, mode and antenna input. The supplied 6 kHz AM filter is only marginal. The optional VC-20 internal converter covers 108-174 MHz in all modes with full read-out. The non-U.S.A. version operates from 120/220/240 50/60 Hz.

Made In: Japan 1987-1996

Voltages: 120 AC 60 Hz 40W USA

Readout: **00000.01** Digital Phs.

Physical: 10.6x3.8x10.6" 12 Lbs.
269x96x269mm 5.4 kg

Status: Active Manufacturer
Active Model

Rarity: Abundant

Reviews: *Passport* 1988-1997
RDI Whitepaper
WRTH 1987, 1989
WRTH Buyer's Guide 1993
QST February 1988
ODXA July 1988

	New	Used
Price:	\$799-1019	\$600-650
Rating:	★★★★★	★★★★★

KENWOOD

RZ-1

Wideband Broadcast Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- Mini Head. Jack
- Squelch
- Speaker
- 100 Memories
- Sweep
- Beep
- Memory Scan
- Attenuator
- Illuminated Keys
- Ext. Speaker Jack
- Line Out (Stereo)
- Alpha Memories

Specifications:

Coverage 500 kHz - 905 MHz. Modes AM/FM-N/FM-W/C3F(TV)
Selectivity 250/10/7 kHz -6dB. IF Rejection >40 dB (60-905 MHz).
Sensitivity <5 μ V AM Environment ... -10° to +60° C.
IF 45.75, 10.7, .455 MHz. Video Output .. 1 V p-p 75 ohm NTSC
Audio 2 W 8 ohm Antenna Input . SO-239 & Motorola

Accessories:

SP-41 Speaker SP-50B Speaker

Comments:

This receiver is designed for mobile operation. An under-dash car bracket is supplied. Only double conversion in FM-W mode. FM reception is stereo to the line outputs. Scanning is manual, timer or carrier operated. Memories may be lock-out of the scan sequence. Tuning steps: 5, 12.5, 20 or 25 kHz. The NTSC television video output is 1 Vp-p. and is only on the USA version. A lithium battery backs-up the memories. As with most wideband receivers, the shortwave band is not exceptional. However, the RZ-1 has sufficient performance to monitor the major worldband broadcasters while on the road. It also provides VHF-UHF coverage and even TV audio. If a monitor is connected the TV video may be viewed.

Made In: Japan 1988-1992

Voltages: 11-16 VDC 1 Amp

Readout: **00005.** Digital LCD

Physical: 7.09x1.97x6.22" 3.3 Lbs
180x50x158mm 1.5 kg

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

Reviews: *Mon. Times* January 1989

	New	Used
Price:	\$500-560	\$210-280
Rating:	★★★	★★★

33 Knight Kit

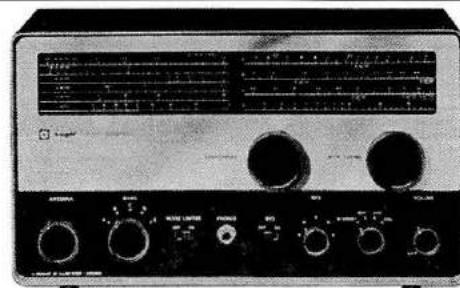
Knight Kit was a house label for kits offered by Allied Radio. They offered an incredible selection of low and medium priced shortwave kits. Many of the low-end regenerative models had names such as *Ocean Hopper*, *Space Spanner* and *Span Master*. A representative sample is illustrated in this chapter.

The Knight Kit *Star Roamers* superheterodyne was produced in prodigious numbers in the late 1960's and 1970's. Many young radio enthusiasts (including the author) had one of these units geared towards the neophyte.

Allied Radio Corp.
100 N. Western Av.
Chicago, IL 60680



R-55A



General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. 6 Tubes.

Features:

- 1/4" Head. Jack • S-Meter • Speaker • Bandspread
- BFO • MVC/AVC • Standby • Antenna Trimmer
- Mute Line

Specifications:

Coverage530 - 36000 kHz +6M Modes AM/SSB/CW
IF1650 kHz Antenna Input . Terminals

Circuit Complement:

6BE6 Mixer/Osc, 6BZ6 1st IF Amp, 6AW8 2nd IF Amp/Audio Driver, 6AW8 BFO/
Audio Output, 6AL5 Detector-AVC/NL and EZ90 Rectifier.

Accessories:

Crystal Calibrator

Comments:

Ranges: .53-1.9, 1.8-6.3, 6-14.5, 11.5-36, 47-54 MHz. Matches the T-60 Transmitter. [¥51,000].

Variants:

The earlier model **R-55** was reviewed in *QST* September 1961 and in *CQ* August 1961. The R-55 had the reverse panel colors of the R-55A.

Made In: 1967-1968

Voltages: 110-130 VAC 60Hz 60W

Readout:  Analog

Physical: 14.75x8.375x10.25" 20 Lbs.
377x213x260mm 9.1 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: See Variants.

	New	Used
Price:	\$65	\$35-50
Rating:	⑨	⑨



R-100A

General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. 9 Tubes.



Features:

- 1/4" Head. Jack
- BFO
- Mute Line
- Speaker
- MVC/AVC
- ANL
- RF Gain
- Standby
- Q-Multiplier
- Bandsread
- Antenna Trimmer

Specifications:

Coverage 540 - 30000 kHz +6M Modes AM/SSB/CW
Selectivity 4.5 - .3 kHz -6dB IF 455 kHz
Sensitivity <1.5µV 10 dB S/N Antenna Input . Terminals & Coaxial
Audio Out 8 ohms .5 W

Circuit Complement:

6BZ6 RF Amp, 6BH8 Mixer/HFO, 6AZ8 2nd IF/1st Audio, 6BC7 Detector AVC/ANL, 6AW8 BFO/Audio, 12AX7 Q-Multiplier, 6X4 Rectifier and 0B2 Voltage Regulator.

Accessories:

S-8A Speaker X-10 Crystal Calibrator

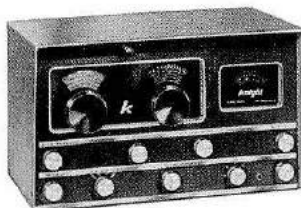
S-Meter (shown on radio)

Comments:

Ranges: .54-1.65, 1.6-4.6, 4.4-12.4 and 12-30 MHz.
Bandsread: 3.5-4, 6.9-7.3, 14-14.4, 20.5-21.5 and 26.6-30 MHz. Gray metal cabinet.

Variants:

Model **R-100** 1959-1961 \$100 (shown right).



Made In: 1962-1968

Voltages: 110-130 VAC 45W

Readout: Analog

Physical: 17.2x9.2x9.7" 25 Lbs.
437x234x246mm 11.3 kg

Status: Inactive Manufacturer
Inactive Model

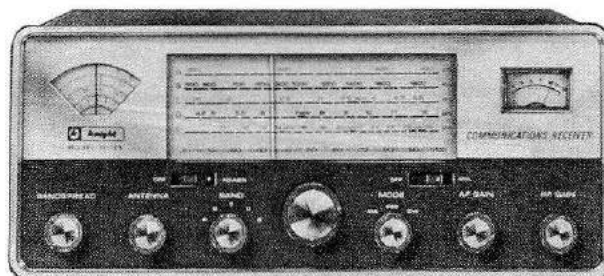
Rarity: Common

	New	Used
Price:	\$100-110	\$40-90
Rating:	⑨	⑨



R-195

General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Mute Line
- AVC
- S-Meter
- RF Gain
- ANL
- Speaker 4"
- Dial Lamp
- Antenna Trimmer
- Bandsread

Specifications:

Coverage 200-420, 550-30000 kHz Modes AM/SSB/CW
Selectivity 4.5 kHz -6dB IF 455 kHz
Sensitivity <2µV 10 dB S/N Antenna Input . Terminals
Audio 1 W

Circuit Complement:

FET Front-end. 13 Transistors.

Comments:

Ranges: .2-.42, .55-1.8, 1.8-4.8, 4.8-12 and 11-30 MHz.

Made In: United States 1970-1971

Voltages: 117 VAC
or 12 VDC

Readout: Analog

Physical: 13.25x5.5x11" 10 Lbs.
336x140x279mm 4.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

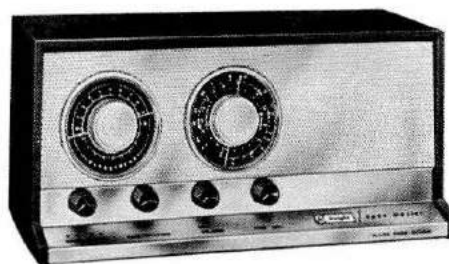
Reviews: QST October 1970

	New	Used
Price:	\$90-100	\$45-60
Rating:	⑨	⑨



Span Master

General Coverage Communications Receiver Kit
Regenerative.



Features:

• Head. Terminals • Speaker 4 • Fine Regen. Tuning • Bandsread

Specifications:

Coverage540 - 30000 kHz

ModesAM/CW

Audio Out5 W 8 ohms

Ant. JackTerminals


Comments:

Ranges: .55-1.6, 1.7-4.5, 4.8-14 and 13.5-30 MHz.

In gray-blue wood cabinet with aluminum grill.

Made In: Japan 1967

Voltages: 110-130 VAC
60 Hz

Readout:  Analog

Physical: 14x6.25x6.75" 7 Lbs.
355x158x171mm 3.1 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$26	\$15-30
Rating:	⑨	⑨



Span Master II

General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. 5 Tubes.



Features:

• 1/4" Head. Jack • Speaker 3" • BFO

Specifications:

Coverage550-30000 kHz

ModesAM/CW

Audio Out1 W 8 ohms


Ant. JackTerminals

Comments:

Ranges: .55-1.6, 1.5-4.5, 4-12 and 11.5-30 MHz.

Made In: Japan 1970

Voltages: 110-130 VAC
60 Hz

Readout:  Analog

Physical: 9.675x5.675x6" 6 Lbs.
246x144x152mm 2.7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$30	\$20-30
Rating:	⑨	⑨



Star Roamer

General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. 4 Tubes



Features:

- 1/4" Head. Jack
- S-Meter
- Speaker 4"
- Bandspread 0-100
- ANL
- Dial Lamp
- Antenna Trimmer
- AVC ON/OFF
- CW Practice Jack

Specifications:

Coverage 200-420, 550-30000 kHz Modes AM
Audio Out 1 W 8 ohms Antenna Input . Terminals

Circuit Complement:

6BE6 Converter, 6HR6 IF Amp, 12AX7 Audio Amp, 6AK6 Audio Output.

Comments:

Ranges: .2-.4, .55-1.8, 1.8-4.8, 4.8-12 and 12-30 MHz. This was a popular and affordable receiver kit that sold in large number, but was a very modest performer. Black metal cabinet.

Made In: Japan 1967-1972

Voltages: 110-130 VAC

Readout: Analog

Physical: 12.25x5.5x8" 10 Lbs.
311x140x203mm 4.5 kg

Status: Inactive Manufacturer
Inactive Model

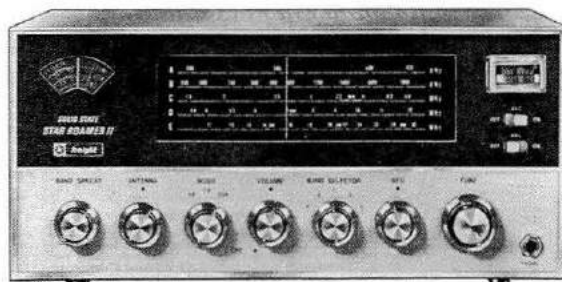
Rarity: Common

	New	Used
Price:	\$40-45	\$20-50
Rating:	⑨	⑨



Star Roamer II

General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Speaker 4"
- AVC ON/OFF
- ANL
- Dial Lamp
- Bandspread
- CW Practice Jack
- Antenna Trimmer
- MW Ferrite Antenna

Specifications:

Coverage 200-420, 550-30000 kHz Modes AM/CW/SSB
Selectivity 5 kHz -6dB. Sensitivity <1.5µV
Audio Out 1 W 8 ohms Ant. Jack Terminals

Circuit Complement:

FET Front-end.

Comments:

The solid state version of the famous Star Roamer.
Ranges: .2-.4, .55-1.8, 1.8-4.8, 4.8-12 and 11-30 MHz. Bandspread covers 80 - 10 meters.

Made In: Japan 1971-1972

Voltages: 110-130 VAC

Readout: Analog

Physical: 12.25x5.5x8" 10 Lbs.
311x140x203mm 4.5 kg

Status: Inactive Manufacturer
Inactive Model

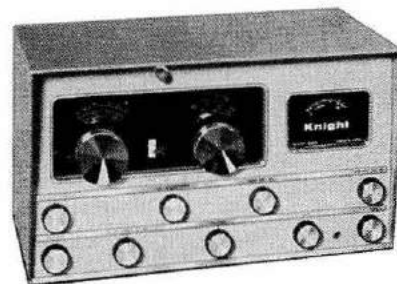
Rarity: Common

	New	Used
Price:	\$70	\$30-45
Rating:	⑨	⑨



Y-726

General Coverage Communications Receiver Kit
Single Conversion Superheterodyne. 9 Tubes



Features:

- 1/4" Head. Jack
- S-Meter (option)
- Q-Multiplier
- Bandsread
- ANL
- Dial Lamp
- AVC/MVC
- BFO

Specifications:

Coverage 540 - 30000 kHz Modes AM/CW
Selectivity Var. .3-4.5 kHz -6dB. IF 455 kHz
Sensitivity <1.5µV CW Antenna Input Terminal and SO239
Audio Out 1 W 8 ohms

Circuit Complement:

6BZ6 RF Amp, 6BH8 Mixer/HF Osc, 12AX7 Q-Mult, 6AZ8 1st IF, 6AZ8 2nd IF/1st Audio, 6BC7 Detector/AVC/ANL, 6AW8A BFO/Audio Power Output, 6X4 Rectifier and 0B2 Voltage Regulator.

Accessories:

Y-728 Speaker Y-727 S-Meter Kit Y-256 Calibrator 100 kHz

Comments:

The Y-726 has a vernier tuning dial with no strings.

Made In: United States 1958-1959

Voltages: 110-130 VAC

Readout:  Analog

Physical: 16x10.75x10" 26 Lbs.
406x273x254mm 12 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$105	\$40-60
Rating:	⑨	⑨

34 Lafayette

The **Lafayette Radio Company** was established in 1921.

Lafayette offered a number of different models during the late 50's and 60's. However, no model in the line stands out as a stellar performer.

The Lafayette chain of radio stores faltered and eventually collapsed in the late 1970s. They had bet heavily on 4 channel, quadraphonic sound as the next wave in home audio. This mistake and keen competition from Radio Shack contributed to their demise.

Lafayette Radio Wire Television

100 Sixth Avenue
New York 13, NY 1945-

Lafayette Radio

P.O. Box 54
Jamaica 31, NY 1958-1961

Lafayette Radio Electronics

111 Jericho Turnpike
Syosset, NY 11791 1964-1976



BCR-101

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Record Jack
- Calibrator 50/500 kHz
- RF Gain
- NB
- BFO
- Ferrite MW Antenna
- Mute
- Dial Lamp
- Speaker 5x1"
- Code Practice Jack

Specifications:

Coverage 170 - 30000 kHz Modes AM/LSB/USB/CW
Selectivity 8/3 kHz -6dB. IF 2.15 MHz, 455 kHz.
Sensitivity <2µV 10dB 3.5-30 MHz Image Rej. >60 dB
Audio Out 2 W 10% distortion Antenna Input . Terminals

Comments:

Front-facing oval speaker. Drum-type tuning dial. Ranges: .17-.4, .53-1.5, 1.4-4, 3.5-7.5, 7.5-15 and 15-30 MHz. Reception gap from 400-530 kHz.

Made In: Japan 1978-1979

Voltages: 110 VAC 50/60 Hz 10W
or 12 VDC @500 ma.

Readout:  Analog

Physical: 12x7x9.5" 13.5 Lbs.
301x241x178 mm 6.1 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Very Scarce

Reviews: *Popular Elec.* July 1979

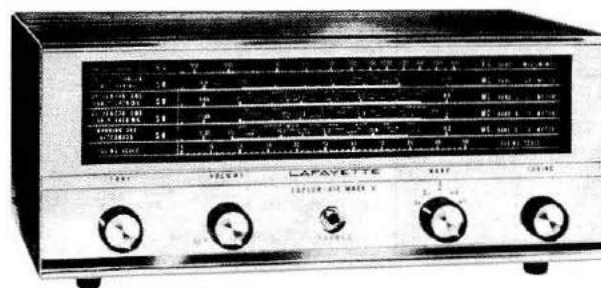
	New	Used
Price:	\$250	\$70-80
Rating:	★★★	★



Explor-Air Mark V

Shortwave Broadcast Receiver

Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Speaker 4"
- Tone
- Ferrite MW Antenna
- Dial Lamp

Specifications:

Coverage See Comments. Modes AM
Sensitivity <5 μ V IF 455 kHz
Selectivity 1.5 kHz -30 dB. Antenna Input . Terminals


Specifications not indicated by manufacturer.

Comments:

Coverage: .55-1.6, 5.9-6.25, 9.45-9.8, 11.45-12 and 15.05-15.5 MHz. The Lafayette Explor-Air Mark V features a walnut grained metal cabinet.

Made In: Japan 1970-1972

Voltages: 105-125 VAC 50/60 Hz.

Readout:  Analog

Physical: 14x6x8" 12 Lbs.
356x152x203mm 5.4 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Scarce

Review: *Comm. Handbook* 1971

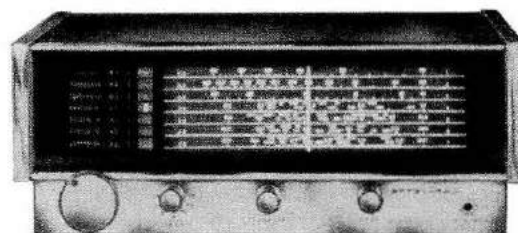
	New	Used
Price:	\$55	\$20-45
Rating:	★★	★



Explor-Air Mark VI

Shortwave Broadcast Receiver

Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- 2 Speakers 4"
- Tone
- Ferrite MW Antenna
- Dial Lamp
- Speaker Jack
- Record Jack

Specifications:

Coverage See Comments. Modes AM
Sensitivity <2 μ V IF 455 kHz
Selectivity 1.5 kHz -30 dB. Antenna Input . Terminals
Image Rej.>45 dB

Comments:

Coverage: .15-.4, .55-1.6, 5.9-6.25, 9.45-9.85, 11.85-12.05 and 15.05-15.55 MHz plus 88-108MHz FM broadcast band.

Variants:

The Explor-Air Mark VII covers: .15-.4, .55-1.6, 5.9-6.25, 9.45-9.85, 11.85-12.05 and 15.05-15.55 MHz plus the FM broadcast band. ©80 1972.

Made In: Japan 1971

Voltages: 105-125 VAC 60 Hz.
or 24 VDC

Readout:  Analog

Physical: ?

Status: Inactive Manufacturer
Discontinued Model

Rarity: Scarce

Review: *Comm. Handbook* 1971

	New	Used
Price:	\$80	\$30-45
Rating:	★★	★



HA-63



General Coverage Communications Receiver

Double Conversion Superheterodyne. 7 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- Bandsread 0-100
- ANL
- AVC/MVC

Specifications:

Coverage 550 - 31000 kHz Modes AM/CW
Sensitivity <1.5µV Antenna Input . Terminals

Accessories:

HE-48 Speaker

Comments:

Requires a speaker.

Variants:

Model **HA-63A** 1966 \$60.

Made In: Japan 1963-1966

Voltages: 120 VAC

Readout:  Analog

Physical: 13x8x10" 19 Lbs.
330x203x254 8.6 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Scarce

	New	Used
Price:	\$60	\$30-45
Rating:	★★★	⑥



HA-225



General Coverage Communications Receiver

Double Conversion Superheterodyne. 14 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- Dial Lamp
- Antenna Trimmer
- RF Gain
- ANL
- Bandsread
- Calibrator 100 kHz¹
- Mute
- MVC/AVC
- Standby
- Q-Multiplier
- Line Out 500 ohms

Specifications:

Coverage 150 - 54000 kHz Modes AM/SSB-CW
Audio Out 1.5 W 8 ohms Antenna Input . SO239 and Terminals

Circuit Complement:

6AQ8 6M RF Amp, 6BL8 6M Mixer/6M Osc, 6BA6 RF Amp, 6BE6 Mixer, 6AQ8 Q-Mult/Calibrator, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6AL5 AM Detector/ANL, 6BE6 Product Detector, 6AQ8 1st AF Amp/BFO, 6AQ5 AF Output, 0A2 Voltage Regulator and 6CA4 Rectifier. The HA-225 uses an AM diode detector and an SSB/CW product detector.

Accessories:

Speaker Crystal for Calibrator


Comments:

Ranges: .15-.4, 1.6-4.8, 4.8-14.5, 10.5-30 and 48-54 MHz. Bandsread ranges: 3.5-3.7, 3.7-3.94, 7-7.17, 7.17-7.35, 14-14.4, 21-21.5 and 28-30 MHz. A separate SO239 antenna jack is provided for 6 meters. The crystal for the calibrator is optional.

Variants: Model **HA-226** covers 550 - 30000 kHz 1966.

Made In: Japan 1965-1966

Voltages: 117 VAC 50/60 Hz
60W

Readout:  Analog

Physical: 17x7.5x10" 23 Lbs
432x191x254mm 10.4 kg

Status: Inactive Manufacturer
Discontinued Model

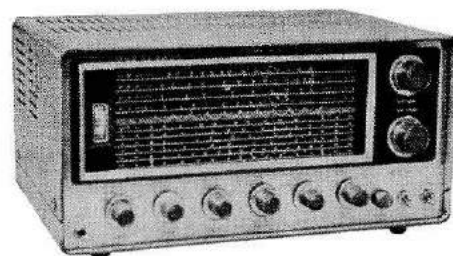
Rarity: Scarce

Reviews: QST February 1970

	New	Used
Price:	\$120-130	\$45-60
Rating:	★★	★



HA-230



General Coverage Communications Receiver
Double Conversion Superheterodyne. 8 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- Q-Multiplier
- RF Gain
- ANL
- Bandspread
- Antenna Trimmer
- Mute
- Dial Lamp
- Standby
- AVC ON/OFF

Specifications:

Coverage550 - 30000 kHz
Selectivity2.6 kHz -6dB.
Sensitivity<1.5µV 10 dB S/N
Audio Out1.3 W
Modes AM/SSB-CW
IF 455 kHz
Antenna Input . Terminals

Circuit Complement:

One RF and two IF stages.

Accessories:

Comments:


Ranges: .55-1.6, 1.6-4.8, 4.8-14.5 and 10.5-30 MHz. Bandspread for 80 through 10 meters. Always-on filament voltages on mixer and oscillator improve stability.

Variants:

Model KT-340 kit form \$75.

Made In: Japan 1964-1966

Voltages: 110-220VAC 50/60 Hz
45W

Readout:  Analog

Physical: 15x7.5x10.2" 21 Lbs
380x190x260mm 9.5 kg

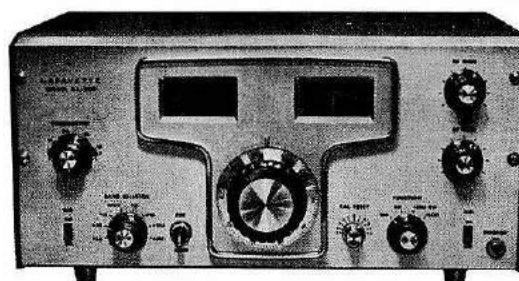
Status: Inactive Manufacturer
Discontinued Model

Rarity: Scarce

	New	Used
Price:	\$70-90	\$50-65
Rating:	★★	★



HA-350



Amateur Band Communications Receiver
Double Conversion Superheterodyne. 12 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- Calibrator 100 kHz¹
- RF Gain
- ANL
- Preselector
- Calibration Reset
- Mute
- Standby
- Dial Lamp
- Line Out 500 ohms

Specifications:

CoverageHam bands 80-10M
Selectivity2 kHz -6dB.
Sensitivity<1µV
Audio Out1 W 8/500 ohm 10% dis.
Modes AM/LSB/USB/CW
IF 3500-4000, 455 kHz
Antenna Input . SO-239

Circuit Complement:

6BZ6 RF Amp, 6BL8 1st Mixer, 6BE6 2nd Mixer, 6BA6 VFO, 6BA6 IF Amp, 6BA6 IF Amp, 6AL5 AVC/ANL, 6AQ5 Product Detector/Calibrator, 6AVQ 1st Audio Amp, 6AQ5 Audio Output, 6BA6 BFO and OB2 Regulator. Crystal controlled first oscillator. Diode AM detector and CW/SSB product detector.

Accessories:

HA-94 Speaker Crystal for Calibrator

Comments:

Supplied coverage: 3.5-4, 7-7.5, 14-14.5, 21-21.5, 28.5-29.1 MHz and WWV at 15 MHz. Has mechanical filter. ¹Crystal for calibrator not supplied.

Made In: Japan 1964-1968

Voltages: 115 VAC 50/60 Hz

Readout:  Analog Lin.

Physical: 15x7.5x10" 19 Lbs
380x190x255mm 8.6 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Scarce

Reviews: CQ February 1965
QST December 1964

	New	Used
Price:	\$130-190	\$45-95
Rating:	★★★	★



HA-500

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 10 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- Antenna Trimmer
- RF Gain
- ANL
- Line Out 500 ohm
- Calibrator 100 kHz
- Mute
- Dial Lamp

Specifications:

Coverage Ham. 80-6 Meters. Modes AM/CW-SSB
Sensitivity <1 μ V 10 dB S/N IF 2608, 455 kHz
Audio 8 ohms Antenna Input . SO-239

Accessories:

HE-48A Speaker

Comments:

Requires speaker. Has two mechanical filters.

Made In: Japan 1967-1968

Voltages: 117 VAC

Readout:  Analog

Physical: 15x7.5x10"
380x190x255mm

Status: Inactive Manufacturer
Discontinued Model

Rarity: Scarce

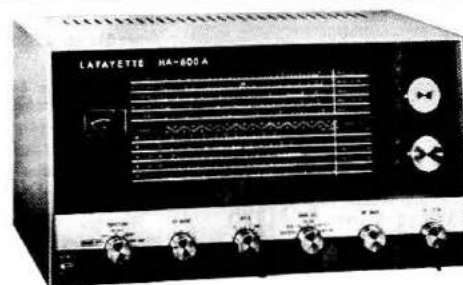
	New	Used
Price:	\$130-150	\$40-60
Rating:	★★★	★



HA-600A

General Coverage Communications Receiver

Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- BFO \pm 2.5 kHz.
- Antenna Trimmer
- RF Gain
- ANL
- Bandsread
- Dial Lamp
- Mute
- Stanby
- Record Jack

Specifications:

Coverage 150 - 30000 kHz Modes AM/SSB-CW
Selectivity \pm 2 kHz -60dB. IF 455 kHz
Sensitivity <1 μ V 10 dB S/N Antenna Input . 50-400 ohm
Audio 3W 8/500 ohms

Circuit Complement:

10 Transistors, 2 FETs, 7 Diodes and 1 Zener Diode. Product detector and mechanical filter.

Accessories:

HE-48C Speaker

Comments:

Sleak angled front panel. Has rather poor image rejection. Requires a speaker. Ranges: .15-.4, .55-1.6, 1.6-5, 4.8-14.6, 10.5-30 MHz. Bandsread: 80/75, 40, 20, 15 and 10 meters.

Variants:

Model HA-600 1968 identical appearance, differences unknown. Model HA-600T 1968 \$100. Reviewed in *Electronics Illustrated* July 1969.

Made In: Japan 1970-1974

Voltages: 105-120 VAC 50/60 Hz
17 W or 12VDC 500 ma

Readout:  Analog

Physical: 15x8.25x9.75" 17 Lbs.
380x210x250mm 7.7 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Scarce

Reviews: *WRTH* 1976
Popular Elec. Nov. 1972

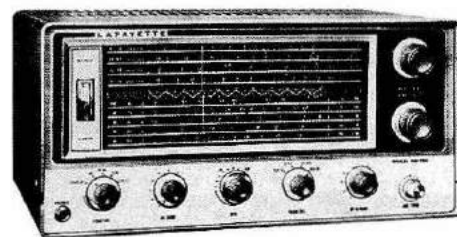
	New	Used
Price:	\$100-120	\$40-70
Rating:	★★★	★



HA-700

General Coverage Communications Receiver

Double Conversion Superheterodyne. 6 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- AVC
- Antenna Trimmer
- RF Gain
- ANL
- BFO
- Bandsread
- Mute
- Standby
- Dial Lamp

Specifications:

Coverage 150 - 30000 kHz
Selectivity 2.6 kHz -6dB.
Sensitivity <1 μ V 6 dB
Audio Out 1.3 W 4/8 ohm
Modes AM/CW-SSB
IF 455 kHz
Antenna Input . Terminals

Circuit Complement:

Tubes: (3) 6BA6 RF Amp/IF Amp, 6BL8 Mixer/Local Oscillator, 6AQ8 Product Detector/BFO, 6BM8 AF Amp. Diodes: (4) 1N60 AVC/AM Detector/S-Meter, SW-05S ANL and (2) FR-1K Rectifier.

Accessories:

HE48A Speaker

Comments:

Ranges: .15-.4, .55-1.6, 1.6-4.8, 4.8-14.6 and 10.5-30 MHz. Reception gap from .4 to .55 MHz. Similar to Trio (Kenwood) ER-202.

Mfg. In: Japan 1966-1968

Voltages: 110-120 VAC 50/60 Hz
45W

Readout:  Analog

Physical: 15x7.675x10":
380x190x260mm 9.5 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Common

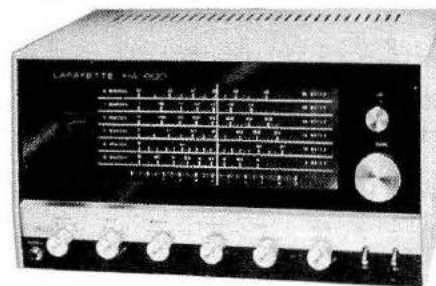
	New	Used
Price:	\$90	\$35-50
Rating:	★★★	★



HA-800

Amateur Band Communications Receiver

Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- BFO \pm 2.5 kHz
- Antenna Trimmer
- RF Gain
- ANL
- Record Jack
- Crystal Calibrator¹
- Mute
- Standby
- Dial Lamp
- Dial Lamp Switch

Specifications:

Coverage Ham. 80 - 6 Meters
Selectivity 4 kHz -6dB.
Sensitivity See Comments
Audio Out 1 W 8/500 ohms
Modes AM/SSB-CW
IF 2.608 MHz, 455 kHz
Image Rej. >40 dB
Antenna Input Terminals

Circuit Complement:

14 Transistors, 3 FETs and 7 diodes. Product detector for SSB/CW.

Accessories:

HE-48B Speaker Crystal for Calibrator

Comments:

Ranges: 3.5-4, 7-7.3, 14-14.35, 21-21.5, 28-29.7 and 50-54 MHz. Sensitivity: <.5 μ V on 15/10M, <1 μ V on 80/40/20M and 2.5 μ V on 6M. Requires a speaker. ¹The crystal calibrator requires optional 100 kHz crystal to operate.

Made In: Japan 1970-1971

Voltages: 117 VAC 50/60 Hz 8W
or 12 VDC 7W

Readout:  Analog

Physical: 15x8.25x9.75" 16 Lbs.
380x210x250mm 7.3 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Scarce

Reviews: QST February 1970

	New	Used
Price:	\$130-150	\$40-60
Rating:	★★★	★★



HA-800B

Amateur Band Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Record Jack
- Antenna Trimmer
- RF Gain
- ANL
- BFO
- Crystal Calibrator¹
- Mute
- Dial Light
- Speaker Out Jack

Specifications:

Coverage Ham bands 80-6M Modes AM/SSB/CW
Selectivity ± 6 kHz -60dB. Antenna Jack . ?
Sensitivity See Comments.

Circuit Complement:

15 Transistors, 4 FETs, 1 Varactor and 13 diodes. Product detector and mechanical filter.

Accessories:

HE-48C Speaker Crystal for Calibrator

Comments:

Ranges: 3.5-4, 7-7.3, 14-14.35, 21-21.5, 28-29.7 and 50-54 MHz.
Sensitivity: $< 5 \mu\text{V}$ on 15/10M, $< 1 \mu\text{V}$ on 80/40/20M and $2.5 \mu\text{V}$ on 6M. Requires a speaker. ¹Calibrator requires optional 100 kHz filter to operate.

Made In: Japan 1971-1974

Voltages: 117 VAC 50/60 Hz
or 12 VDC

Readout:  Analog

Physical: 15x8.25x9.75" 16 Lbs.
380x210x250mm 7.3 kg

Status: Inactive Manufacturer
Discontinued Model

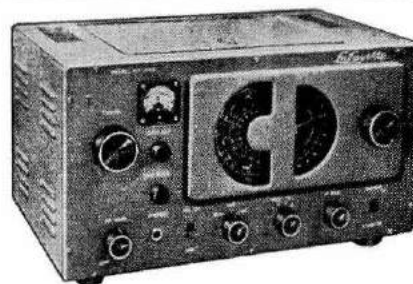
Rarity: Scarce

	New	Used
Price:	\$130	\$40-55
Rating:	★★★	★★



HE-10

General Coverage Communications Receiver
Single Conversion Superheterodyne. 9 Tubes



Features:

- 1/4" Head. Jack
- S-Meter
- AVC/MVC
- Bandspread 0-100
- RF Gain
- ANL
- BFO
- Hinged Cover
- Mute
- Standby
- Dial Lamp

Specifications:

Coverage 455 - 31000 kHz Modes AM/CW
Selectivity 10 kHz -60 dB. IF 455 kHz
Sensitivity $< 1.25 \mu\text{V}$ 10 dB S/N Image Rej. -40 dB
Audio Out 1.5 W 4 ohm 10% dist Antenna Input . Terminals

Circuit Complement:

6BD6 RF Amp, 6BE6 Mixer, 6BE6 HF Osc, 6BD6 1st IF Amp, 6BD6 2nd IF Amp, 6AV6 Detector/AVC/AF Amp, 6AV6 BFO/ANL, 6AR5 Audio Output and 5Y3GT Rectifier.

Accessories:

HE11 Speaker

Comments:


Ranges: .55-1.6, 1.-4.8, 4.8-14.5 and 10.5-31 MHz. Gray metal cabinet. The HE-10 was fashioned after the Hallicrafters S-38 series, but is a superior radio.

Variants:

Model KT-200WX same in kit form \$65.

Made In: Japan 1959-1963

Voltages: 105-125 VAC 50/60 Hz
50W

Readout:  Analog

Physical: 15x8x9" 20 Lbs.
380x200x230mm

Status: Inactive Manufacturer
Discontinued Model

Rarity: Scarce

Reviews: 73 May 1961

	New	Used
Price:	\$80	\$45-60
Rating:	★★★	⑦

Lafayette

HE-30

General Coverage Communications Receiver
Single Conversion Superheterodyne. 9 Tubes

Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- Q-Multiplier
- Bandsread
- ANL
- AVC
- Antenna Trimmer
- Dial Lamp

Specifications:

Coverage 550 - 30000 kHz Modes AM/CW/SSB
Selectivity Var. down to 1.6 kHz Antenna Input . Terminals
Sensitivity <1.6µV 10 dB S/N

Circuit Complement:

6BA6 RF Amp, 6BE6 Mixer, 6BE6 Osc, 6AV6 Q-Multiplier/BFO, (2) 6BA6 IF Amp, 6AV6 Detector/AF Amp/ANL, 6AQ5 Audio Output and 5Y3 Rectifier.

Accessories:

HE-48 Speaker HE-11 Speaker

Comments:

Ranges: .55-1.6, 1.6-4.8, 4.8-14.5 and 10.5-30 MHz. Requires a speaker.

Variants:

Model KT-320 \$80 same in kit form.



Made In: Japan 1961-1964

Voltages: 117 VAC 60 Hz 50W

Readout:  Analog

Physical: 15x7x10" 21 Lbs.
380x180x255mm 9.5 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Common

Reviews: QST November 1961

	New	Used
Price:	\$80-100	\$35-55
Rating:	★★	★

Lafayette

HE-80

General Coverage Communications Receiver
Single Conversion Superheterodyne. 14 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- Bandsread
- Calibrator 100 kHz¹
- RF Gain
- ANL
- BFO
- Q-Multiplier
- Record Jack
- MVC/AVC
- Dial Lamp

Specifications:

Coverage 550 - 30000 kHz +6M Modes AM/CW/SSB
Selectivity 10 kHz -60dB. IF 455 kHz
Sensitivity <3µV Antenna Input . Terminals
Audio Out 1.5 W 8 ohms

Circuit Complement:

6AQ8 6M RF Amp, 6AU6 6M Mixer, 6AQ8 6M Oscillator, 6BA6 RF Amp, 6BE6 Mixer, 6AQ8 Oscillator Buffer, (2) 6BA6 IF Amp, 6AL5 AM Detector/ANL, 6BE6 Product Detector, 6AQ8 AF Amp/BFO, 6AQ5 AF Amp, 6AQ8 Q-Multiplier/Calibrator, 6CA4 Rectifier, 0A2 Voltage Regulator and 1N60 Crystal Calibrator. Dual conversion on 6 meters. Product detector for SSB.

Accessories:

Crystal for Calibrator


Comments: This model was reportedly manufactured for Lafayette by Trio (later to become Kenwood) in Japan. Ranges: .54-1.6, 1.6-4.8, 4.8-14.5, 10.5-30 and 50-54 MHz. ¹Calibrator requires optional 100 kHz filter to operate.

Variants: The similar model Trio ER-202 sold in Europe features 2 meter coverage instead of 6 meters. Please see the Kenwood Chapter of this book.



Made In: Japan 1963-1964

Voltages: 115 VAC 50/60 Hz

Readout:  Analog

Physical: 17x7.5x10" 23.5 Lbs.
430x190x260mm 10.7kg

Status: Inactive Manufacturer
Discontinued Model

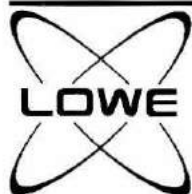
Rarity: Common

	New	Used
Price:	\$130-140	\$40-60
Rating:	★★	★★

The **Lowe Electronics Limited** company was started in 1964, specializing in the supply of equipment for the radio amateur hobby market in the United Kingdom. Expansion led to the establishment in 1979 of a company headquarters and service center in Matlock, Derbyshire. Several Company owned retail branch outlets can be found throughout England.

For many years Lowe was the leading importer of Japanese receivers into the U.K. It was decided that a domestically produced receiver could be built with better performance and at a lower cost. The first receiver was introduced in 1987 and was sold predominantly within the United Kingdom. Additional models were produced with the unique HF-150 being perhaps the best known and most successful. This and other Lowe models have earned high marks for exceptional performance, solid, straight forward construction and excellent durability. This reputation has transformed Lowe from a domestic producer to a respected world-wide exporter with 85% of its (1993) production being sold outside the U.K.

Lowe Electronics Ltd.
Chesterfield Rd.
Matlock, Derbyshire DE4 5LE
England 1979-1997



HF-125



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Meter
- Tone
- 30 Memories
- Speaker Jack
- Record Jack
- Tilt Stand
- Attenuator -20dB
- 400 Hz audio CW filter

Specifications:

Coverage 30-30000 kHz	Modes CW/LSB/USB/AM
Selectivity 10/7/4/2.5 kHz -6dB.	Image Rej. > 80 dB
Sensitivity <.3µV (SSB .5-30 MHz).	IFs 45 MHz & 455 kHz
Audio Out 7.5W 8 ohm 5% THD	VFO Incr. 15.6 Hz
Dyn.Range >90 dB at 50 kHz	Antenna Input . SO-239 & Terminals

Accessories:

D125 Sync Det & FM K-125 Wired Keypad P-125 Portable Option

Comments:

A receiver respected for its clean, solid design, good performance and ample filter selection. The P-125 Portable option consists of: an antenna preamp on a printed circuit board, telescopic whip antenna, eight NiCad cells and two battery holders. Also reviewed in *Practical Wireless* March & April 1987, *Electronics & Wireless World* April 1987.

Made In: England 1987-1988

Voltages: 12 VDC .25 Amp
or internal batteries.

Readout: **00001.** Digital LCD

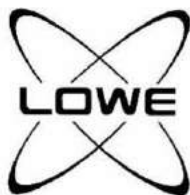
Physical: 10x4x8.3" 4.2 Lbs.
255x100x200

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

Reviews: *WRTH* 1987, 1988
Passport 1988, 1989
Monitoring Times April 1987
R.D.I. White Paper
WRTH Buyer's Guide 1993

	New	Used
Price:	\$599	\$390
Rating:	★★★★	★★★



HF-150

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Whip Preamp
- 2 Tuning Rates
- Speaker
- Metal chassis
- Whip Preamp
- 60 Memories
- Speaker Jack
- Atten. -20 dB
- Record Jack
- Sync Detect.

Specifications:

Coverage 30 - 30000 kHz
Selectivity 7/2.5 kHz -6dB.
Sensitivity <.5µV¹ (SSB .5-30 MHz).
Audio Out 1.6W 8 ohm 5% THD
Distortion <1% THD all modes
Spur. Res.>65 dB

Modes AM/LSB/USB
Stability <±30 Hz in 1 hour
IFs 45 MHz & 455 kHz
Antenna Input . SO-239 & Terminals
VFO Incr. 8 Hz & 60 Hz

Accessories:

AP-150 Audio Filter MB-150 Mobile Bracket C-150 Nylon Case
RK-150 Rack Shelf IF-150 PC Interface KPAD-1 Wired Keypad
BK-150 Backlit Kit
AK-150 Accs. Kit (Whip, Hand & Shoulder Straps, Nicads)

Comments:

¹ Sensitivity is .3µV with preamp on. An excellent, robustly built receiver with good filtering. The standard LCD is not backlit. Memories store frequency, mode and bandwidth. Sturdy metal alloy case.

Variants: The Model **HF-150M** is a marine version. The main circuit board has been treated to be moisture resistant and the case is white.

Made In: England 1992-1997

Voltages: 12 VDC or internal batteries (8 x AA cells)

Readout: **00001.** Digital LCD
Physical: 7.2x3.2x6.5" 3 Lbs.

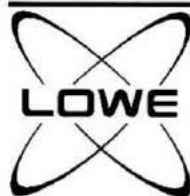
185x80x160mm 1.3 kg

Status: Active Manufacturer
Active Model

Rarity: Common

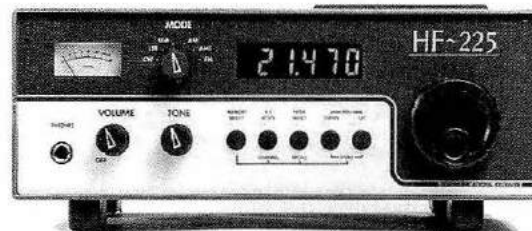
Reviews: *R.D.I. White Paper*
Passport 1993-1997
WRTH 1992, 1993
WRTH Buyer's Guide 1993
Mon. Times August 1992
ODXA February 1993

	New	Used
Price:	\$499-699	\$340-390
Rating:	★★★★★	★★★★



HF-225

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Front Tilt Feet
- VFO A/B
- Backlit LCD
- S-Meter
- Speaker
- 30 Memories
- Tone
- Speaker Jack
- Record Jack
- Attenuator -20 dB
- 200 Hz CW Audio Filter
- Speed-Sensitive Tune

Specifications:

Coverage 30-30000 kHz
Selectivity 10/7/4/2.2 kHz -6dB.
Sensitivity <.5µV (SSB 2-30 MHz).
Audio Out 1.6W 8 ohm 5% THD
Distortion <1% THD all modes

Modes CW/LSB/USB/AM
Stability <±30 Hz in 1 hour
IFs 45 MHz & 455 kHz
Antenna Input . SO-239 50 ohm & jacks
VFO Incr. 8, 50, 125 Hz

Circuit Complement:

A dual conversion super het, using up-conversion to a HF first IF of 45 MHz and a second IF of 455 kHz for the selective filters. This provides good IF image rejection of all tuned frequencies in the HF band coupled with good filter shape factors in the 455 IF. Six band selecting filters are provided before the first mixer.

Accessories:

B-225 Nicad Pack D-225 Sync Det & FM Mode W-225 Tels. Whip & Amp
C-225 Carry Case KPAD-1 Wired Keypad S-225 Speaker

Comments: When in the memory channel mode, the main tuning knob allows rapid scrolling of the 30 memories. Memories 0-9 can be recalled through the keypad. Memories are maintained by a lithium cell. LCD is backlit. Also see model HF-225E.

Made In: England 1990-1997

Voltages: 12 VDC 300ma Supplied with AC Power Supply

Readout: **00001.** Digital LED

Physical: 10x4x8.3" 4.2 Lbs.
254x102x211mm 1.9 kg

Status: Active Manufacturer
Active Model

Rarity: Common

Reviews: *Passport* 1990-1995
R.D.I. White Paper
WRTH 1990
WRTH Buyer's Guide 1993
ODXA March 1993

	New	Used
Price:	\$749-799	\$490
Rating:	★★★★	★★★★



HF-225E Europa

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Tone
- Attenuator -20 dB
- Front Tilt Feet
- Speaker
- Speaker Jack
- 200 Hz CW Audio Filter
- VFO A/B
- 30 Memories
- Record Jack
- Speed-Sensitive Tune
- Whip Preamp

Specifications:

Coverage30-30000 kHz Modes CW/LSB/USB/AM
Selectivity7/4.5/3.5/2.2 kHz -6dB. Stability <±30 Hz in 1 hour
Sensitivity<.5µV (SSB 2-30 MHz). IFs 45 MHz & 455 kHz
Audio Out 1.6W 8 ohm 5% THD Antenna Input . SO-239 & jacks
Distortion<1% THD all modes VFO Incr. 8, 50, 125 Hz

Accessories:

B-225 Nicad Pack C-225 Carry Case W-225 Tels. Whip & Amp

Comments:

An optimized version of the HF-225, geared towards the serious DXer. Enhancements include: improved and tighter I.F. filters, improved filter chokes, filter selection diodes replaced by low capacitance switching diodes, filter select decoupling capacitors are bypassed by new chip capacitors. Additionally the KPAD-1 keypad and D-225 Sync AM and FM detector are featured as standard.

Made In: England 1993-1997

Voltages: 12 VDC 300ma Supplied with AC Power Supply.

Readout: **00001.** Digital LED

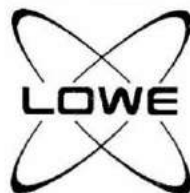
Physical: 10x4x8.3" 4.2 Lbs.
254x102x211mm 1.9 kg

Status: Active Manufacturer
Active Model

Rarity: Scarce

Reviews: *Passport* 1997

	New	Used
Price:	\$969-999	\$590-620
Rating:	★★★★	★★★★



HF-235

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Tone
- 30 Memories
- Rack Handles
- Keypad
- Speaker 2"
- 200 Hz CW Audio Filter
- AGC ON/OFF
- VFO A/B
- Attenuator 20 dB
- Speed-sensitive Tune
- Mute Line
- Backlit LCD
- Line Out 600 ohm

Specifications:

Coverage30 - 30000 kHz Modes CW/LSB/USB/AM
Selectivity 10/7/4/2.2 kHz -6dB. Stability <±30 Hz/hr. @20°C
Sensitivity<.5µV (SSB 2-30 MHz). IFs 45 MHz & 455 kHz
Audio Out 3.5W 4 ohm 5% THD VFO Increment 8, 50, 125 Hz
Distortion<1% THD all modes Antenna Input . BNC 50 ohm

Accessories:

S-225 Speaker D-225 NBFM/AM Sync. HF-235/HS High Stability
DC-235 Cabinet HF-235/RC RS232 Port.

Comments: This model was designed for the military-commercial market. When in the memory channel mode, the main tuning knob allows rapid scrolling of the 30 memories. Memories 0-9 can be recalled through the keypad. Memories are maintained by a lithium cell. A DB25M jack on the back provides the line out, mute, speaker out, DC power and AGC. Keypad entry to 1 kHz. The LCD display is backlit. Optional control by computer at 300/8/N/1 or 1200/8/N/1.

Variants: Model HF-235/R includes the RS-232 port. Model HF-235/F includes FAX mode. Model HF-235/H includes the high stability option.

Made In: England 1992-1996

Voltages: 110-120 or 220-240 VAC
or 20-40 VDC

Readout: **00001.** Digital LCD

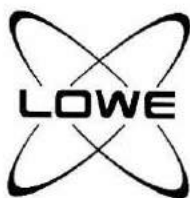
Physical: 19x3.5x12.6" 12 Lbs.
483x88x320mm 5.5 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: *Passport* 1992-1996
R.D.I. Whitepaper
Mon. Times February 1992

	New	Used
Price:	\$1995	\$800-950
Rating:	★★★★	★★★



HF-250

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Tone
- 200 Hz CW Audio Filter
- 255 Memories
- Front Tilt Feet
- Backlit Display
- Attenuator -20 dB
- Speaker
- Record Jack
- RS-232C Port
- Dual Clock Timer
- Mute Line
- Speaker Jack
- Tilt Legs

Specifications:

Coverage 30 - 30000 kHz Modes CW/LSB/USB/AM
Selectivity 10/7/4/2.2 kHz -6dB. Stability $\leq \pm 10$ Hz in 1 hour
Sensitivity $< .2 \mu V$ (SSB 2-30 MHz). VFO Incr. 8 Hz
Audio Out 1.6W 8 ohm 5% THD Antenna Input . 50 ohm SO-239 & Terms.

Accessories:

DU250 FM/AM Sync. RC250 Infrared Remote WA250 Tels. Whip & Amp

Comments:

The antenna spring terminals are 600 ohms. The LCD is backlit. Memories store frequency and mode.

Variants:

The **HF-250E Europa** model is planned for early 1997 and will be optimized with improved filters and filter chokes.

Made In: England 1995-1997

Voltages: 10-15 VDC. Supplied with AC Power Supply

Readout: **00000.1** Digital LCD

Physical: 11x4.13x5.2" 6 Lbs. 280x105x205mm 2.7 kg

Status: Active Manufacturer
Active Model

Rarity: Common

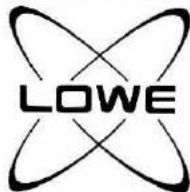
Reviews: *Passport* 1996-1997
WRTH 1996

Mon. Times September 1992

ODXA December 1995

NASWA May 1996

	New	Used
Price:	\$1200	\$700-720
Rating:	★★★	★★★



SRX-30D

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- RF Gain
- Preselector
- Speaker
- BFO

Specifications:

Coverage 200 - 30000 kHz Modes AM/USB/LSB

Circuit Complement:

Utilizes the Barlow-Wadley drift cancelling system. Frequency synthesis via Plessey SL6 1641 double balanced modular integrated circuit.

Comments:

Ranges: .2-1.5, 1.5-5, 5-12 and 12-30 MHz. The SRX-30D has green LEDs. There is one knob to select MHz and the large knob under the frequency display tunes kHz.

The author is seeking further information and specifications on this model.

Made In: England 1980-1982

Voltages: ?

Readout: **00001.** Digital

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	\$550	\$200-225
Rating:	★★★	★★★

The United States Air Force contracted with **LTV Temco** (Ling-Temco-Vought, Inc. of Dallas Texas) to repackage the famous Collins 51S-1 for airborne use. The receiver takes on a different look at first glance, but retains the same mechanical attributes as the 51S-1. Heavy shielding was added to withstand a nuclear electromagnetic pulse. If one refers to the photograph of the Collins 51S-1 shown earlier in this book, the knob orientation is virtually the same. The knob themselves were changed to be more unique. This was reportedly to facilitate operation if the radio man was blinded by a nuclear blast.

This radio does occasionally show up at hamfests and has been in the Fair Catalog.

There was also a matching VHF/UHF receiver.

LTV Temco
Aerosystems Division
 Greenville, TX

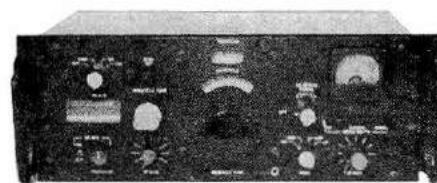
1964

LTV Temco

G133F

General Coverage Communications Receiver

Triple Conversion Superheterodyne. 18 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- RF Gain
- IF Out 500 kHz
- Mute Line
- S-Meter
- ANL
- Standby
- Dial Lamp
- BFO
- Rejection Tuning
- Atten. -10 dB
- Calibrator 100 kHz
- Zero Set
- Line Out 150/600

Specifications:

Coverage 2000 - 30000 kHz¹
 Selectivity 5/2.4/.3 kHz -6dB.
 Sensitivity <.6µV SSB
 Image Resp. ... >50 dB
 Audio Out 4 / 600 ohms

Modes AM/SSB/CW
 Stability ±400-885 Hz
 IF Rejection >80
 Antenna Input . 50 ohms
 Environment ... -10° to 80° C.

Accessories: G-186 Panoramic Display

Circuit Complement: 6DC5 RF Amp, 6EA8 1st Mixer/HF Osc., 6EA8 2nd Mixer/17.5 MHz Osc, 6EA8 3rd Mixer/Remote Gain Gate, (3) 6BA6 IF Amp, 12AX7 Q-Mult., 6BA6 AGC Amp, 6EA8 LF Mixer/LF Crystal Osc, 5670 IF Cathode Follow/AGC Cathode Follow, 6BF6 2nd Local AF Amp, 6AK5 2nd Line AF Amp, 12AX7 1st Line AF Amp/1st Local AF Amp, 6136 VFO, 6EA8 LF Mixer/Calib. Osc, 6BA6 BFO, 6136 VFO Amp plus semiconductors. Double conversion above 7 MHz.

Comments: This is a Collins 51S-1 repackaged and shielded by LTV Temco for military airborne use. ¹A low frequency tuner has also been added which will allow tuning the .2-1 and 1-2 MHz bands using the 28-29 and 29-30 MHz bands. (The 2.4 filter, which is mechanical, is measured at -3dB). [¥288,400].

Made In: United States 1964

Voltages: 115/230 VAC 50-400 Hz
 125W or 24 VDC 4.7W

Readout: 001 Digital Mech.
 to 100 kHz then Analog Lin.

Physical: 18.32x6.25x12.875" 26 Lbs
 465x159x327mm 11.8 kg

Status: Active Manufacturer
 Inactive Model

Rarity: Very Scarce

	New	Used
Price:	①	\$600-800
Rating:	⑥	⑥

37 Mackay

The **Mackay Radio Company** has had a long and interesting history. They were owned for over ten years by International Telephone and Telegraph conglomerate. They then went private for a period of time and divided into two divisions. In 1995 the huge French company Thomson-CSF became the majority owner of Mackay Radio Systems. Thomson also acquired controlling interest in the British firm of Redifon, at around the same time.

Reportedly the Hammarlund SP-600-JX-32 variant was produced for Mackay Radio with the same specifications as the SP-600-JX-21. The author seeks more information on this point.

Mackay Radio Systems today provides communications equipment and integrated systems to military, paramilitary, maritime and civil customers for manpack, mobile, shipboard, tactical and strategic applications. The company offers technologically advanced equipment, systems planning, integration and turnkey installations. As part of Thomson-CSF, Mackay supports its customers with advanced HF and VHF technologies and features with MIL Spec/FED Standard compliant equipment and systems.

Mackay 3000 series receivers do appear on the surplus market from time to time and present excellent buying opportunities. Someday, no doubt, the 5050 series will also become available.

Mackay Radio & Telegraph Co.

Marine Division
345 Hudson St.
New York, NY 1954-1968

ITT Mackay Marine

133 Terminal Av.
Clark, NJ 07066 1968-1970

ITT Mackay Marine

2912 Wake Forest Rd.
Raleigh, NC 27611 1973-1978

Mackay Communications Inc.

Radio Systems Division
5301 Departure Dr.
Raleigh, NC 27658 1980-1995

Mackay Radio Systems, Inc.

2721 Discovery Dr.
Raleigh, NC 27616 1995-1997

Mackay Radio



3007A

General Coverage Communications Receiver
Single Conversion Superheterodyne. 12 Tubes.

Features:

- 1/4" Head. Jack
- Speaker
- AVC ON/OFF
- Bandsread
- RF Gain
- BFO
- Mute
- Speaker Switch
- Dial Lamp

Specifications:

Coverage85-550,1900-24000 kHz Modes AM/CW
Selectivity3 Position Antenna Input . SO239 75 ohms
Audio Out 1 W 4/600 ohms

Circuit Complement:

(2) 6BA6, 6BA7, 6J7, 6SA7, (3) 6SG7, 6SQ7, 25L6 and 25Z6.


Comments:

Built for marine applications.



Made In: United States 1954

Voltages: 115VAC 50-60 Hz or 115VDC

Readout:  Analog

Physical: 17.312x9.75x18"
439x246x457mm

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	①	\$200-250
Rating:	⑥	⑦

Mackay Marine Division **ITT**

3010B

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 17 Tubes.

Features:

- 1/4" Head. Jack
- RF Gain
- Line Out Jack
- Dial Lamp
- S/AF Meter
- BFO
- ANL
- Attenuator
- AGC ON/OFF
- Mute
- Ext. Spkr Jack
- Speaker Switch
- Calibrator 100 kHz
- Rack Handles
- Hinged Top Cover

Specifications:

Coverage 10 - 30000 kHz
Selectivity 6/3.1/_ kHz -6dB.
Sensitivity <1µV 4-30 MHz CW
Audio Out 1 W 4/600 ohms

Modes AM/SSB/CW
Image Rej >80 dB
IF Rejection >80 dB
Antenna Input . SO239 75 ohms

Accessories:

Mechanical Filters

Comments:

Ranges: .07-.21, .21-.7, .7-2, 2-4, 4-8, 8-16 and 16-30 MHz. A robustly built receiver designed for the marine market. An incredible 7½ foot fiber glass tape scale is provided for each 2 MHz band with calibration marks every 2 kHz. The MHz value is displayed digitally and the kHz positions are indicated on the linear analog tape display. Reduced sensitivity in the range of 10-70 kHz. Exact differences between the 3010B and 3010C are unknown.



Made In: United States 1965-1969

Voltages: 115VAC 50-60 Hz 95 W

Readout:  Analog Lin.

Physical: 17.07x9.6x16" 45 Lbs.
433x244x406mm 20.4 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: QST April 1967

	New	Used
Price:	\$1500-1600	\$500-1000+
Rating:	★★★★★	★★★★

Mackay Marine Division **ITT**

3010C

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 17 Tubes.

Features:

- 1/4" Head. Jack
- RF Gain
- Line Out Jack
- Standby
- S/AF Meter
- Speaker Switch
- ANL
- Antenna Filter
- AVC ON/OFF
- Rack Handles
- Ext. Spkr Jack
- Dial Lamp
- Calibrator 100 kHz
- BFO
- Mute
- Hinged Top Cover
- Attenuator

Specifications:

Coverage 10 - 30000 kHz
Selectivity 6/3.1/_ kHz -6dB.
Sensitivity <1µV 4-30 MHz CW
Audio Out 1 W 4/600 ohms

Modes AM/SSB/CW
Image Rej >80 dB
IF Rejection >80 dB
Antenna Input . SO239 75 ohms

Circuit Complement: 7788 RF Amp, 6C4 Sig. Cath. Follower, 6688 IF Amp, 6BL8Sig. Cath. Follower/2nd Mixer, 6BE6 3rd Mixer, 6BA6 455 IF Amp, 6BA6 455 IF Amp, 6AV6 1st Audio Amp AVC Rectifier/2nd Detector, 12AT7 Product Detector/455 IF Out Cath Follower, 6BF5 Audio Output, 6BL8 Osc. Cath. Follower, 6U8 VFO Mixer/Crystal Osc., 6EW6 XVFO IF Amp, 6BA6 VFO, 6BA6 Crystal Calibrator, 6AU6 BFO and 0B2 Voltage Regulator.

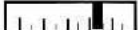
Accessories: Mechanical Filters

Comments: A robustly built receiver designed for the marine market. An incredible 7½ foot fiber glass tape scale is provided for each 2 MHz band with calibration marks every 2 kHz. The MHz value is displayed digitally and the kHz positions are indicated on the linear analog tape display. With 15 bands, the effective dial length is over 100 feet. Reduced sensitivity 10-70 kHz. An outstanding general coverage receiver.



Made In: United States 1969-1970

Voltages: 115VAC 50-60 Hz 95 W

Readout:  Analog Lin.

Physical: 17.07x9.6x16" 45 Lbs.
433x244x406mm 20.4 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	\$1800	\$500-1000+
Rating:	★★★★★	★★★★★



Mackay

3020A

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF Meter
- Preselector
- Line Out 600 ohm
- RF Gain
- Speech Clarifier
- Mute
- AGC (2 Pos.)
- Speaker
- Ext. Spkr Jack
- Lock
- Modular Construction
- Speaker Switch
- Attenuator -20 dB

Specifications:

Coverage 15 - 30000 kHz
Selectivity 8/2/1/4 kHz -6dB.
Sensitivity <.4μV .1-30 MHz SSB
Image Rej >70 dB
Audio Out 1 W 3.2 ohms (5%)
Line Out 600 ohm

Modes AM/LSB/USB/CW
Stability <1Hz per MHz tuned
IF Rejection >70 dB
Environment ... 0° to +50°C 95% Humid.
IF 92, 8 MHz
Antenna Input . 50 ohm

Accessories:

Cabinet (shown)

Comments:

Tuning is via decadic switches with one switch per digit of frequency out to 100 Hz. Designed primarily for the commercial and marine market. [¥100000-¥185000].

Made In: United States 1973-1977

Voltages: 115/230 ±15% VAC
50/60 Hz 90 W

Readout: 00000.1 Digital

Physical: 19x5.25x17" 36 Lbs.
482x133x425mm 16.32 Kg.

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: QST January 1974

	New	Used
Price:	\$3700	②
Rating:	★★★★★	⑤



Mackay

3021A

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF Meter
- Preselector
- Line Out 600 ohm
- RF Gain
- Speech Clarifier
- Mute
- AGC FAST/SLOW
- Speaker
- Ext. Spkr Jack
- Rack Handles
- Modular Construction
- Lock
- Speaker Switch
- Attenuator -20 dB
- 2 Tuning Rates

Specifications:

Coverage 15 - 30000 kHz
Selectivity 8/2/1/4 kHz -6dB.
Sensitivity <.4μV .1-30 MHz SSB
Image Rej >70 dB
IF 92, 8 MHz
Audio Out 1 W 3.2 ohms (5%)

Modes AM/LSB/USB/CW
Stability <1Hz per MHz tuned
IF Rejection >70 dB
Environment ... 0° to +50°C 95% Humid.
Antenna Input . 50 ohm

Accessories:

Cabinet (shown)

Comments:

The tuning is controlled by a three position toggle switch. In the uppermost position ("kHz"), the tuning rate is 10 kHz per rotation. In the center position ("MHz"), the rate is 2.5 MHz per rotation. In the bottom position ("Lock"), the tuning knob is inoperative. Shown with optional cabinet. Designed primarily for the commercial and marine market.

Variants:

Model 3021 differences unknown.

Made In: United States 1973-1977

Voltages: 115/230 VAC ±15%
50/60 Hz 90 W

Readout: 00000.1 Digital LED

Physical: 19x5.25x17" 30 Lbs.
482x133x425mm 13.6 kg.

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	\$4200	②
Rating:	★★★★★	⑤

ITT**Mackay**

3040A



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack • S/AFMeter • Preselector • Speaker
- RF Gain • Speech Clarifier • Mute • AGC FST/SLO
- Line Out Jack • Ext. Spkr Jack • Rack Handles • Speaker Switch
- Modular Construction

Specifications:

Coverage 15 - 30000 kHz Modes AM/LSB/USB/CW/RTTY
 Selectivity 8/2.3/2/.4 kHz -6dB. Stability <1 PPM (±10% PS)
 Sensitivity <.4µV .1-30 MHz SSB IF Rejection >80 dB
 Image Rej >80 dB Environment ... -15° to +55°C
 Audio Out 2.5 W 3.2 ohms (10%) BFO Range ± 2 kHz.
 Line Out 600 ohm Adj. to +10 dBm Spe. Clar. Rg. ± 50 Hz.

Accessories:

Cabinet (shown) Filter RTTY 500 Hz -3dB DC Power Supplies

Comments:

Tuning is via thumb-wheel switches. Shown with optional cabinet. Designed primarily for the commercial and marine market.

Variants:

Model **3030A** no LSB position.

Made In: United States 1985-1988

Voltages: 90-130/195-260 VAC
47-63 Hz

Readout: 00000.01 Digital Switch

Physical: 19x5.75x17" 19 Lbs.
493x133x432mm 8.6 Kg.

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

ITT**Mackay**

3041A



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack • S/AFMeter • Preselector • Speaker
- RF Gain • Speech Clarifier • Mute • AGC FST/SLO
- Line Out Jack • Ext. Spkr Jack • Rack Handles • 3 Tuning Rates
- Dial Lock • Attenuator • Speaker Switch • Modular Construction

Specifications:

Coverage 15 - 30000 kHz Modes AM/LSB/USB/CW/RTTY
 Selectivity 8/2.3/2/.4 kHz -6dB. Stability <1 PPM (±10% PS)
 Sensitivity <.4µV .1-30 MHz SSB IF Rejection >80 dB
 Image Rej >80 dB Environment ... -15° to +55°C
 Audio Out 3.5 W 3.2 ohms (10%) BFO Range ±2 kHz.
 Line Out Adj. to +10 dBm Spe. Clar. Rg. ± 50 Hz.

Accessories:

Cabinet (shown) Filter RTTY 500 Hz -3dB DC Power Supplies

Comments:

Shown with optional cabinet. Designed primarily for the commercial and marine market. [¥500,000].

Variants:

Model **3031A** has no LSB position.

Made In: United States 1985-1989

Voltages: 90-130/195-260 VAC
47-63 Hz 62W

Readout: 00000.01 Digital LED

Physical: 19x5.75x17" 19 Lbs.
493x133x432mm 8.6 Kg.

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

ITT**Mackay**

MSR5050

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

**Features:**

- 1/4" Head. Jack
- RF Gain
- Line Out Jack
- Speaker Switch
- Mute
- S/AF Meter
- Keypad
- Ext. Spkr Jack
- BITE
- BFO
- Dimmer
- Rack Handles
- 99 Memories
- Speaker
- AGC FST/MED/SLO
- 3 Tuning Rates
- Modular Construction

Specifications:

Coverage 10 - 30000 kHz
 Selectivity 6/2.7/ / / kHz -6dB.
 Sensitivity <.5 μ V 2-30 MHz SSB
 Image Rej >80 dB

Modes AM/LSB/USB/CW/FSK
 Stability ± 1 part in 10^6
 IF Rejection >80 dB
 Environment ... -10° to +50°C 95% Humid

Accessories:

Cabinet (shown) High Stability (± 1 part in 10^6)
 Filters Remote FSK Modem
 MSR6420 Remote Controller

Comments:

Designed for the commercial, military and diplomatic markets.

Made In: United States 1979-1988

Voltages: 115/230 VAC $\pm 15\%$
47-400 Hz 60W

Readout: **00000.01** Digital LED

Physical: 19x5.25x17.5"
483x133x443mm

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	①	②
Rating:	⑥	⑥



MSR5050A

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

**Features:**

- 1/4" Head. Jack
- RF Gain
- Line Out Jack
- RS-232/422/423
- Mute
- S/AF Meter
- Keypad
- Ext. Spkr Jack
- BITE
- Dial Lock
- BFO ± 7.99 kHz
- Dimmer
- Rack Handles
- 100 Memories
- Speaker Switch
- Speaker
- AGC FST/MD/SLO/OFF
- 3 Tuning Rates
- Modular Construction

Specifications:

Coverage 10 - 30000 kHz
 Selectivity 6/2.7/ / / kHz -6dB.
 Sensitivity <.5 μ V 2-30 MHz SSB
 Image Rej >80 dB
 Audio 3W 5% Dist.

Modes AM/LSB/USB/CW/FSK
 Stability ± 1 part in 10^6
 IF Rejection >80 dB
 Environment ... -10° to +55°C 95% Humid
 Noise Figure ... <16 dB

Accessories:

Cabinet TADIL-A/LINK-11 Data High Stability (± 1 part in 10^6)
 Filters ISB Option

Remote FSK Modem

MSR6420 Remote Controller

Comments:

Designed for the commercial, military and diplomatic markets. The MSR6420 Remote Control Unit (shown right), can fully remote control up to 99 receivers.



Made In: United States 1988-1997

Voltages: 115/230 VAC $\pm 15\%$
47-400 Hz

Readout: **00000.01** Digital LED

Physical: 19x5.2x19" 30 Lbs.
483x132x483mm 13.6 Kg.

Status: Active Manufacturer
Active Model

Rarity: Very Scarce

	New	Used
Price:	①	②
Rating:	⑥	⑥

MSR 5090

General Coverage Communications Receiver
Double ? Conversion Superheterodyne. Solid State.



Features:

- S/AF Indicator
- BFO ± 3 kHz
- Line Out Jack (4)
- Speaker
- Squelch
- Mute
- Squelch
- Rack Handles
- AGC FST/MED/SLO
- RS-232/485
- BITE
- 1000 Memories
- Modular
- DSP

Specifications:

Coverage 10 - 30000 kHz
Selectivity 6/2.75/.3/_1 kHz
Sensitivity <.5 μ V .5-30 MHz SSB
Image Rej >80 dB
Modes AM/LSB/USB/CW/FSK
Audio Out 600 ohms
IF Rejection >80 dB
Environment ... -10 $^{\circ}$ to +55 $^{\circ}$ C 95% Humid

Accessories:

MSR6490 Controller (shown) Four Channel ISB
MSR6420 Remote Controller Internal Preselector

Comments: 1Other bandwidths are programmable. Uses DSP technology starting at the IF stage. Shown above with optional MSR6490 controller serving as front panel (which may be detached). Designed primarily for the commercial, military and diplomatic markets.

Variants

Model **MSR5091** is a dual receiver version of the MSR5090 configured in the same chassis with the addition of internal circuit cards. The MSR-5091 screen is shown to the right.

CHANNEL A	AGC	MODE	CHANNEL B	AGC	MODE
998	MED	USB	999	FAST	DAT
FREQUENCY			FREQUENCY		
RX	22.416.501		RX	26.789.249	
SQL	BFO	BFO	SQL	BFO	BFO
ON	ON	+ 789	OFF	ON	- 789
SIGNAL STRENGTH, DBU			AUDIO POWER, DBM		
*****			*****		
MTR			← → KNOB MAIN		
			FREQ MENU		

Made In: United States 1997

Voltages: 90-270 VAC 40-400 Hz
20-32 VDC

Readout: **00000.001** Digital with optional MSR6490 shown.

Physical: 19x7x15" 30 Lbs.
483x180x360mm 13.6 Kg.

Status: Active Manufacturer
Future Model

Rarity: (Too new)

	New	Used
Price:	\$5500A	②
Rating:	⑥	⑥

The company with perhaps the most historically significant name is the **Marconi Company**. This old and respected company British company manufactures for the maritime, military, commercial and government markets.

Please see *Chapter 79 Briefly Mentioned* for the Marconi M3000 Oceanic.

The author would like to hear from readers with information on models not listed such as the CR100/150/200/300.

Marconi International Marine Co. Ltd.
Elettra House, Westway
Chelmsford, CM1 3BH
England 1965-1980

Marconi Communications Sys. Ltd.
Marconi House
Chelmsford, Essex CM1 1PL
England 1965-1980

GEC-Marconi Communications Ltd.
Marconi House, New Street
Chelmsford, Essex CM1 1PL
England 1994-1997



Apollo

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4 Head Jack (2)
- Speaker
- BFO
- Atten. -10/20/30 dB
- RF Gain
- Rack Handles
- Dial Lock
- AGC OFF/LNG/SHT
- Speaker
- NL Variable
- Mute Line

Specifications:

Coverage 15 - 28000 kHz Modes AM/SSB/CW/RTTY
Selectivity 5 Position Stability 1 x 10⁸ per day
Sensitivity 1µV 10 dB S/N 3-28 MHz IF 1100, 100 kHz
Image Rej >100 dB Antenna Input . 75 ohm
Audio Out 2W Environment ... -10° to +55° C.

Accessories:

High Stability Option 24 Fixed Channel Option

Comments:

Ranges: .015-.03, .03-.065, .065-.14, .14-.3, .3-.675, .675-.14, 1.4-3, 3-6, 6-15 and 15-28 MHz. Single conversion below 1.4MHz. Designed for the marine market.

Made In: England 1970-1982

Voltages: 110/115/120/220/230/240
VAC 45-65 Hz 90W

Readout: **00000.1** Digital

Physical: Cabinet Version:
19.6x12.6x20.5" 75 Lbs
19.6x318x514mm 34 kg
Rack Version:
19x10.5x20.25" 55 Lbs.
483x265x514mm 25 kg

Status: Active Manufacturer
Inactive Model

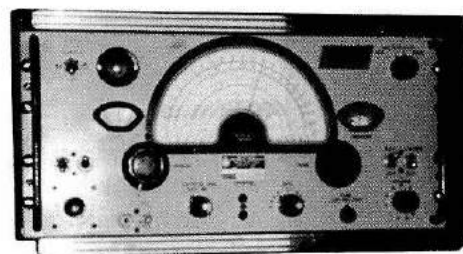
Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑥

Canadian Marconi

CSR-5

General Coverage Communications Receiver
Double Conversion Superheterodyne. 11 Tubes.



Features:

- 1/4 Head Jack
- RF Gain
- Dial Lamp
- Standby
- BFO
- Rack Handles
- NL
- Tone
- Speaker Jack
- Panoramic Jack
- Fixed Crystal Position
- AVC ON/OFF
- Line Out 500 ohms

Specifications:

Coverage See Comments.

Selectivity 4 Position

Modes AM/CW

Antenna Input . Terminals 70/500 Ohms

Circuit Complement:

6SK7 1st RF Amp, 6SK7 2nd RF Amp, 6K8 Mixer and Crystal Controlled Osc., 6SK7 1st IF Amp, 6SK7 2nd IF Amp, 6B8 Diode Detector, 6H6 NL Rectifier/AVC Rectifier, 9002 HF Conversion Osc., 6SK7 BFO, VR150-30 Voltage Regulator and 6F6 Pentode Power Output. Temperature compensation and voltage stabilization provide a high degree of stability.

Accessories:

110-540 VP3 Pwr.Supl. WE-11 Pwr. Supl 106-704 Shock Mounts

110-823 Speaker 110-386 Rack Speaker Cabinet (shown)

Comments:

Ranges: .079-.207, .195-.518, 1.5-3.5, 3.55-7.65, 6-16.1 and 14.9-30.3 MHz. A single crystal socket is available on the front of the receiver (lower, center) for fixed operation. The CSR-5 was designed for the Royal Canadian Navy. [¥123,600].

Variants: Model **CSR-5A** (shown). Differences unknown.

Made In: Canada 1942

Voltages: Requires 12 VAC or VDC @2.3A and 250V @115ma

Readout:  Analog

Physical: Cabinet Version:
20.25x10.5x13.675" 68 Lbs.
514x259x347mm 30.8 kg
Rack Version:
19x8.75x13.25" 58 Lbs
483x222x336mm 26.3 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	①	②
Rating:	⑥	⑦



H2540

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4 Head Jack
- AGC 4 Pos.
- Remote Port
- Speaker
- Rack Handles
- BFO
- Speaker Switch
- Atten. -10/20/30 dB
- AF/S/FSK Indicator

Specifications:

Coverage 15 - 30000 kHz

Selectivity 6/3/1.2/.5/.3 kHz

IF Rejection ... >80 dB

Image Rej >100 dB

Accuracy ±.5 Hz.

Modes AM/SSB/CW/ISB/RTTY

Stability 1 x 10⁸ per day

Environment ... -10° to +55°C 95% Humid.

Antenna Input . 50 ohms

Accessories:

High Stability Option

H6800 Remote Controller

Computer Port

Comments:

Reduced performance 15 - 1500 kHz. 1 Hz tuning and display resolution. Tuning via knob or decade switches.

Variants:

Later model **H2541** adds a keypad and deletes the decade switches. This receiver is shown to the right.



Made In: England 1982-1987

Voltages: 100-250 VAC 45-65 Hz
135W

Readout: **00000.001** Digital

Physical: 19x8.75x21" 55 Lbs.
483x222x533mm 25 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑧



H2542

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- ¼ Head Jack
- AGC.
- Squelch
- Keypad
- B.I.T.E.
- Speaker
- Rack Handles
- Dimmer
- Scan
- BFO
- Speaker Switch
- 1 MHz Out Jack
- Sweep
- Atten. -10/20/30 dB
- AF/S/FSK Indicator
- Memories
- Modular Construction

Specifications:

Coverage 15 - 30000 kHz
Stability 1 x 10⁶ per day
Image Rej >100 dB
Environment... -10° to +55° C.

Modes AM/SSB/CW/ISB/RTTY
IF Rejection >80 dB
Antenna Input . 50 ohms

Comments:

Reduced performance 15 - 1500 kHz. 1 Hz tuning and display resolution.

Made In: England 1985-1994

Voltages: 100-125 200-250 VAC
50-60 Hz 100W

Readout: **00000.001** Digital

Physical: 19x5.25x23.1" 33 Lbs.
483x133x588mm 15 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑥



H2550

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- ¼ Head Jack
- RF Gain
- Mute
- Speaker
- Keypad
- 256 Memories
- B.I.T.E.
- DSP
- Rack Handles
- Modular Construction
- Atten. -6/12/18 dB
- RS232/422/485

Specifications:

Coverage 10 - 30000 kHz
Stability 3 parts 10⁶ per day
Sensitivity <.5µV 13 dB SINAD
Image Rej >100 dB

Modes AM/SSB/CW/ISB/RTTY
IF Rejection >80 dB
Environment ... -10° to +55° C.

Accessories:

Internal Preselector ISB (4 Channel) Various Front Panels
MIL-STD-1 553B Bus ALE & Multimode Modems

Comments:

1 Hz tuning and display resolution.

Made In: England 1995-1997

Voltages: 115/230 VAC 50-60 Hz

Readout: **00000.001** Digital Phs.

Physical: 19x5.2x25" 44 Lbs.
483x133x635mm 20 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑥

39 McKay Dymek

The **McKay Dymek Company** produced an interesting and somewhat unusual line of receivers in the 1970's and 1980's. Radically different in appearance than traditional communications receivers, McKay Dymek models more closely resembled home stereo receivers. They produced superb audio. Tuning was also different. A separate knob was provided for each digit. This approach provides fast, accurate tuning, but is not efficient for simply "tuning the band". Many receivers found their way into government installations including the F.A.A. where fixed operation was called for.

McKay Dymek even sold an analog longwave, medium wave, FM, and five shortwave band portable called the DR-11 (reportedly manufactured by Selena of Russia).

The DR300 series was the last line of H.F. receivers produced by McKay Dymek. The DR333 and DR360 were gaining sales momentum when production was abruptly halted in October of 1994. The unexpected discontinuance of a very vital and very specialized integrated circuit from Plessey of England prevented further production.

The Company continues to supply high quality active antennas and other communications products to the commercial, broadcast, military and hobby markets.

McKay Dymek Co.
675 N. Park Av.
Pamona, CA 91766 1977-1978

McKay Dymek Co.
111 South College Av.
Claremont, CA 91711 1979-1980

Stoner Communications, Inc.
McKay Dymek Div.
9119 Milliken Av.
Rancho Cucamonga, CA 91730 1981-1992

Stoner Communications, Inc.
300 N. Eighth St.
Lakeside, OR 97449 1992-1997

McKay Dymek

DR22C-6

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- NL
- Fixed Notch 5000 Hz.
- 4" Speaker
- Mute Line
- Speaker Jack
- IF Out Jack 455 kHz
- Fine Tuning

Specifications:

- Coverage 50 - 29700 kHz
- Selectivity 8/4 kHz -6dB.
- Sensitivity <.5µV SSB .4-20 MHz
- Audio Out 2 W 10% distortion
- Modes AM/LSB/USB
- Stability ±40 Hz. after 1/2 hour
- Image Reject .. 70 dB
- Antenna Input . RCA & Terminals

Circuit Complement:

43 Integrated circuits, 16 FETs, 18 transistors and 54 diodes.

Accessories:

DS111 Speaker 19RM22 Rack Mount Kit DP40 RF Preselector

Comments:

One knob is featured for each digit of display except last digit which displays either 0 or 5 kHz. The Fine Tuning knob on this digit is for tuning stations not on an even 5 kHz channel. This interesting approach may be cumbersome for those who like to tune up and down the bands. This series of receivers has a distinct "home stereo" look to it and is a departure from the traditional communications receiver design.

Variants:

It is believed that the prior model **DR22** was very similar, but with no NL switch above the headphone jack \$895-\$995.

Made In: United States 1977-1980

Voltages: 110-120/220-240 VAC
50/60 Hz 30 W

Readout: **00005.** Digital LED

Physical: 17.5x5.1x15" 20 Lbs.
430x130x370mm 9 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Scarce

Reviews: *WRTH* 1978

	New	Used
Price:	\$1199-1250	\$200-300
Rating:	★★★	★★★

DR33C-6

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Fixed Notch 5000 Hz.
- 4" Speaker
- Mute Line
- IF Out Jack
- Line Out 600 ohms
- 4 Tuning Steps
- Speaker Jack
- Fine Tuning ± 5 kHz

Specifications:

Coverage50-29700 kHz Modes AM/LSB/USB/CW
Selectivity8/4/_ kHz -6dB. Stability ± 40 Hz. after 1/2 hour
Sensitivity <.5 μ V SSB/CW .4-20 MHz Image Reject .. 70 dB
Audio Out2W 4 ohms 10% dist. Antenna Input . RCA or BNC & Terminals

Circuit Complement:

56 Integrated circuits, 31 FETs, 20 transistors and 66 diodes. Collins mechanical filters.

Accessories:

DS111 Speaker 19RM22 Rack Mount Kit DP40 RF Preselector
375 Hz Filter 1200 Hz Filter

Comments:

The advertising literature and the owner's manual both indicate that a BNC jack is used as the antenna input. However, the same literature clearly shows an RCA phono jack (and terminals) for this use. Sold for \$800 in 1987 as a close-out.

Made In: United States 1975-1987

Voltages: 110-120/220-240 VAC
50/60 Hz 30 W

Readout: **00000.1** Digital LED

Physical: 17.5x5.1x15" 16 Lbs.
430x130x370mm 7.3 kg

Status: Inactive Manufacturer
Discontinued Model

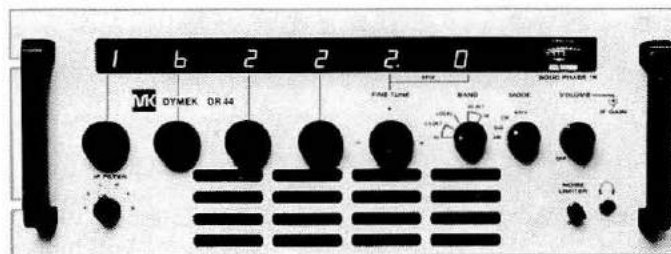
Rarity: Scarce

Reviews: *WRTH* 1980
Passport 1987
Commun. World 1980
Radex 1979
QST September 1979

	New	Used
Price:	\$1000-1995	\$400-650
Rating:	★★★	★★★

DR44

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Fixed Notch 5000 Hz.
- 4" Speaker
- Mute Line
- IF Out Jack
- Fine Tuning ± 5 kHz
- IF Gain
- Speaker Jack

Specifications:

Coverage50 - 29700 kHz Modes AM/SSB/CW/RTTY
Selectivity8/4/2.5/_ kHz -6dB. Stability ± 40 Hz. after 1/2 hour
Sensitivity <.5 μ V CW .4-20 MHz Image Reject .. 70 dB
Audio Out2 W 4 ohms 10% dist. Antenna Input RCA
Environment...0 to +50°C 95% Humid

Circuit Complement:

56 Integrated circuits, 31 FETs, 20 transistors and 66 diodes.

Accessories:

DS111 Speaker DP4044 RF Preselector
375 Hz Filter 1200 Hz Filter

Comments:

The frequency is selected by rotating individual knobs per digit. The first knob selects 0,10 or 20 MHz. The next knob selects the single MHz position, the third knob the 100 kHz position, the fourth knob the 10 kHz position and the fifth knob (Fine Tune) selects the 1 kHz and 100 Hz position. This model was used by the Federal Aviation Administration.

Made In: United States 1975-1987

Voltages: 110-120/220-240 VAC
50/60 Hz 30 W

Readout: **00000.1** Digital LED

Physical: 19x7x15" 16 Lbs.
480x180x370 mm 7.3 Kg

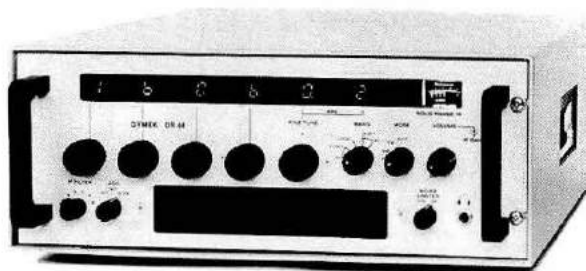
Status: Inactive Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	\$1900	\$390-480
Rating:	★★★	★★★

DR44-6

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- 4" Speaker
- IF Gain
- Rack Handles
- S-Meter
- Mute Line
- Speaker Jack
- ANL
- IF Out Jack
- 4 Tuning Steps
- Fixed Notch 5000 Hz.
- AGC OFF/FST/SLO
- Fine Tuning ± 5 kHz

Specifications:

Coverage 50 - 29700 kHz Modes AM/LSB/USB
Selectivity 8/4/1 kHz -6dB. Stability ± 40 Hz. after 1/2 hour
Sensitivity $< .5\mu V$ SSB/CW .4-20 MHz Image Reject .. 70 dB
Audio Out 2 W 10% distortion Antenna Input . RCA

Circuit Complement:

56 Integrated circuits, 31 FETs, 20 transistors and 66 diodes.

Accessories:

DS111 Speaker DC719 Cabinet (shown) DP4044 RF Preselector
375 Hz Filter 1200 Hz Filter

Comments:

The frequency is selected by rotating individual knobs per digit. The first knob selects 0, 10 or 20 MHz. The next knob selects the single MHz position, the third knob the 100 kHz position, the fourth knob the 10 kHz position and the fifth knob (Fine Tune) selects the 1 kHz and 100 Hz position. Note the addition of the AGC knob on the left, not found in the DR44. Shown in optional cabinet. This model was actively marketed to the marine and military markets. The DR44-6 was also used by the F.A.A.

Made In: United States 1975-1987

Voltages: 110-120/220-240 VAC
50/60 Hz 30 W

Readout: **00000.1** Digital LED

Physical: 17.5x5.1x15" 16 Lbs.
444x129x381mm 7.2 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Very Scarce

Reviews: *Radio Electronics*

	New	Used
Price:	\$1900-2200	\$460-530
Rating:	★★★	★★★

DR55-6

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- 4" Speaker
- AGC (2 Pos).
- S-Meter
- Mute Line
- Rack Handles
- ANL
- IF Out Jack
- Fine Tuning ± 5 kHz
- Fixed Notch 5000 Hz.
- Speaker Jack

Specifications:

Coverage 50-29700 kHz Modes AM/LSB/USB
Selectivity 8/4/1 kHz -6dB. Stability ± 40 Hz. after 1/2 hour
Sensitivity $< .5\mu V$ CW .4-20 MHz Image Reject .. 70 dB
Audio Out 2 W 4 ohms 10% dist. Antenna Input . RCA 50 ohm
Environment .. 0 to +50°C 95% Humid

Circuit Complement:

43 Integrated circuits, 16 FETs, 18 transistors and 54 diodes.

Accessories:

DS111 Speaker DC719 Cabinet (shown) DP4044 RF Preselector
375 Hz Filter 1200 Hz Filter

Comments:

Tuning is accomplished with a knob for: 10s of MHz., MHz, 100 Hz and 5 kHz. A Fine Tuning knob is featured (± 5 kHz) for frequencies off 5 kHz increments. Closed-out at \$650 in 1987. Shown in optional cabinet. This model was actively marketed to the marine and military markets.

Made In: United States 1974-1988

Voltages: 110-120/220-240 VAC
50/60 Hz 30 W

Readout: **00000.1** Knobs

Physical: 19x7x15" 16 Lbs.
483x178x381mm 7.2 kg

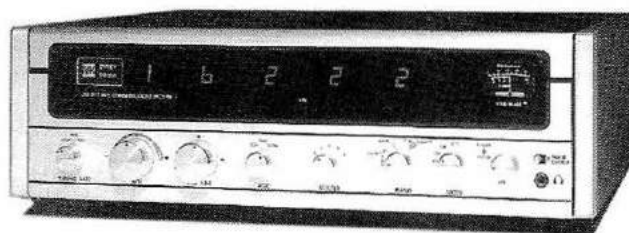
Status: Inactive Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	\$1200-1295	\$300-380
Rating:	★★★	★★★

DR101-6

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Fixed Notch 5000 Hz.
- 4" Speaker
- Mute Line
- IF Out Jack
- Speaker Jack
- IF Gain
- 3 Tuning Rates
- VRIT
- AGC OFF/FST/SLO

Specifications:

Coverage 50 - 29700 kHz Modes AM/LSB/USB/RTTY
Selectivity 8/4 kHz -6dB. Stability ± 40 Hz. after 1/2 hour
Sensitivity $< .5\mu V$ SSB/CW .4-20 MHz Image Reject .. 70 dB
Audio Out 2 W 4 ohms 10% dist. Antenna Input . RCA & Terminals
Environment .. 0 to +50°C.

Accessories:

DS111 Speaker Rack Mounting Kit DP40 RF Preselector
375 Hz Filter 1200 Hz Filter

Comments:

The DR101 features Variable Rate Incremental Tuning that provides electronic scan tuning in 100 Hz steps. One of the earliest slewing receivers. Consequently this model may be used for band scanning unlike the DR22, DR33, etc. The 4 kHz filter is Collins.

Made In: United States 1974-1983

Voltages: 110-120/220-240 VAC
50/60 Hz 30 W

Readout: **00001.** Digital LED

Physical: 17.55x.1x15" 16 Lbs.
444x129x381mm 7.3 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Very Scarce

Reviews: *WRTH* 1982
Passport 1987

	New	Used
Price:	\$1725-1850	\$400-620
Rating:	★★★★	★★★★

DR333

General Coverage Communications Computer Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- Head. Jack
- PC S-Indication
- AGC
- Attenuator
- Squelch
- Speaker Jack
- 9999 Memories
- Spectrum Display
- Clock 24 Hr.
- RF Gain
- 999 Band Scans with auto logging
- PBT ± 600 Hz.
- Operation via mouse and/or keyboard

Specifications:

Coverage 10 - 30000 kHz Modes AM/LSB/USB/CW/FM
Selectivity 6/2.7/_/_ kHz -6dB. Third Order +35 dBm
Sensitivity $< .5\mu V$ SSB IF Reject > 70 dB
Audio Out6 W 10% dist. Image Reject .. 90 dB
IFs 455 kHz, 40.04 MHz Antenna Input . BNC 50 ohm

Accessories:

.4 kHz Filter 1.2 kHz Filter

Comments:

This receiver lacks any knobs or controls and is operated exclusively through a PC. System requirements: DOS 3.1 or higher, 256K memory. Software supplied on two 5 1/4" diskettes. Connection to the PC is via the serial port (9600 baud, DB-9). The supplied 2.7 kHz filter is a Collins. The spectrum analyzer features 400 stops and is near real-time. A 15 character label can be stored with each memory. Please see **Displays** at the bottom of the following page.

Variants: The model **DR300** was the receiver on printed circuit board with no enclosure (OEM). Only the 6 kHz filter was supplied as standard.

Made In: United States 1992-1994

Voltages: 11 - 16 VDC 1A

Readout: **1 Hz.** Digital on PC

Physical: 7.4"x2.25x4.75" 2 Lbs.
188x57x121mm .9 kg

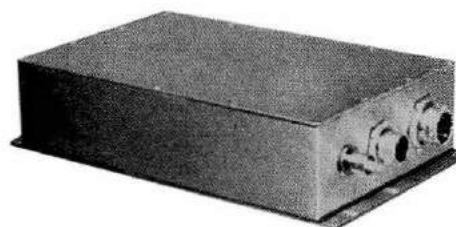
Status: Inactive Manufacturer
Discontinued Model

Rarity: Very Scarce

Reviews: *Audio* September 1992
Funk February 1993
NASWA September 1992

	New	Used
Price:	\$1199	\$390-440
Rating:	★★★★	★★★

DR360



General Coverage Communications Computer Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- IF Out Jack
- Squelch
- Clock 24 Hr.
- PBT ± 600 Hz.
- PC S-Indication
- Speaker Jack
- RF Gain
- Operation via mouse and/or keyboard
- AGC
- 9999 Memories
- 999 Band Scans with auto logging
- Attenuator
- Spectrum Display

Specifications:

Coverage 10 - 30000 kHz
Selectivity 6/2.7/.5/ kHz -6dB.
Sensitivity <.5 μ V SSB
Audio Out 6 W 10% distortion
IFs 455 kHz, 40.04 MHz

Modes AM/LSB/USB/CW/FM
Third Order +35 dBm
IF Reject >70 dB
Image Reject .. 90 dB
Antenna Input BNC 50 ohm

Comments:

The DR360 is the military version of the DR333. All inputs and outputs are furnished via three weather and dust resistant connectors. The heavy duty enclosure is RF and weather gasketed. Standard outputs are: 455 kHz IF, 600 ohms unbalanced, .6 watt audio. Supplied filters include: 6, 2.7 and .5 kHz -6dB. The 2.7 filter is a Collins. One optional filter may be added. A 1 PPM TCXO is also featured on this model. The antenna jack is a BNC. All other specifications and capabilities are the same as the model DR-333.

Made In: United States 1992-1994

Voltages: 11 - 16 VDC 1A

Readout:  Digital on PC

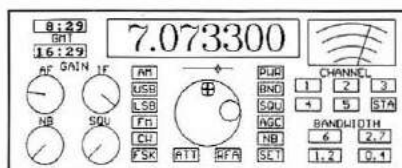
Physical: 9"x2.25x5" 3 Lbs.
229x57x127mm 1.4 kg

Rarity: Typically Unavailable

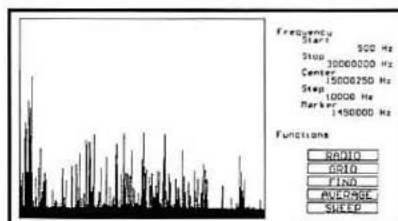
	New	Used
Price:	①	⑤
Rating:	★★★★	⑥

◆ DR333 and DR360 Displays

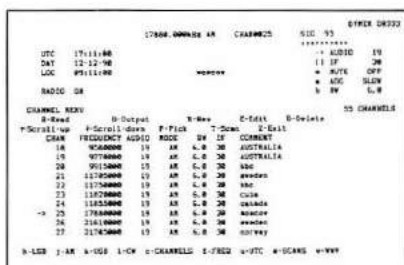
The DR333 and DR360 feature several modes of operation:



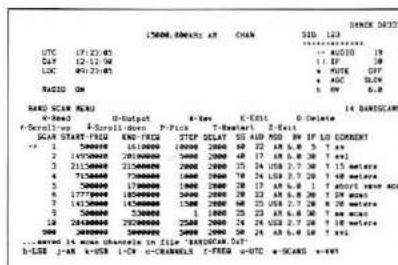
Standard Operating display with S-meter, clock and 10 Hz freq. resolution.



Spectrum Analyzer display with up to 400 stops.



Memory Scan Menu display showing channel, freq., mode, bandwidth, etc.



Band Scan Menu display showing start, stop frequency, step, delay, etc.

40 Midland

The **Midland Company** has for many years produced a broad line of electronic parts, accessory items, test devices, CBs and CB accessories. In the late 1960's and early 1970's they produced a fairly non-descript line of shortwave receivers. Midland manufactured perhaps the most consistently poor offering of shortwave receivers ever produced. Many featured cardboard back panels and bottom panels. Their performance was below average, even for their price class.

Midland no longer manufactures shortwave receivers. Today Midland's other radio products exhibit a much higher quality of construction and are respected in the industry.

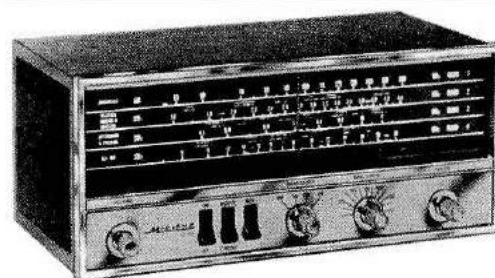
Midland International Corp.
1909 Vernon St.
N. Kansas City, MO 64116 1971-

Midland
111 South College Av.
Claremont, CA 91711

MIDLAND

11-500

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Ext. Spkr Jack
- Speaker
- Dial Lamp
- Standby
- BFO
- AVC
- MW Ferrite Antenna
- Bandsread 0-100

Specifications:

Coverage 550 - 30000 kHz Modes AM/CW
Antenna Input Terminals

Circuit Complement:

9 Transistors and 3 diodes. Has three IF stages.

Comments:

Ranges: .55-1.6, 1.6-4.4, 4.5-11 and 11-30 MHz. Black metal cabinet.

Made In: Japan 1969-1970

Voltages: 117 VAC

Readout:  Analog

Physical: 12x5.25x4.75" 5 Lbs.

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

Reviews: CQ February 1969

	New	Used
Price:	\$45	\$20-30
Rating:	★★	★

MIDLAND

11-520

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- MW Ferrite Antenna
- Ext. Spkr Jack
- Fine Tuning
- AVC
- Dial Lamp
- AFC [FM]
- Speaker

Specifications:

Coverage 550 - 30000 kHz & FM Modes AM/CW
Antenna Input Terminals

Circuit Complement:

11 Transistors and 6 diodes.

Comments:

Ranges: .55-1.6, 2-5, 4.8-12, 11-30 MHz plus FM 88-108 MHz.

Made In: Japan 1969-1970

Voltages: 117 VAC

Readout:  Analog

Physical: 14x7x8" 5 Lbs.

Status: Active Manufacturer
Inactive Model

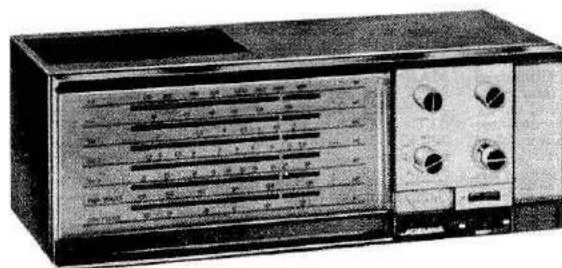
Rarity: Scarce

	New	Used
Price:	\$80-90	\$35-45
Rating:	★★	★

MIDLAND

11-530

General Coverage Broadcast Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Tone
- Speaker
- Ext. Spkr Jack
- Bandsread
- AVC
- Dial Lamp
- AFC [FM]

Specifications:

Coverage See Comments. Modes AM
Antenna Input Terminals

Circuit Complement:

15 Transistors, 6 diodes, 2 varistors, 1 thermistor, 2 silicon rectifiers and 3 auxiliary transistors.

Comments:

Seven bands are featured. Ranges: .55-1.6, 1.6-4, 4-12, 30-50, 88-108 (FM), 108-135 (VHF Air) and 144-174 MHz (VHF High band). Please note that the coverage of the shortwave band ends at 12 MHz.

Made In: Japan 1969-1970

Voltages: 117 VAC

Readout:  Analog

Physical: 13x5x8" 11 Lbs.

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$90-100	\$35-45
Rating:	★★	★



13-900

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Ext. Spkr Jack
- Speaker
- Dial Lamp
- Standby
- BFO
- AVC
- MW Ferrite Antenna
- Bandsread 0-100

Specifications:


Coverage 540 - 30000 kHz Modes AM/CW
Antenna Input Terminals

Comments:

Reception gap from 1.6-2 MHz. The 13-900 appears to be an updated version of the model 11-500.

Made In: Japan 1972-1973

Voltages: 117 VAC

Readout:  Analog

Physical: 12x5.25x4.75" 5 Lbs.

Status: Active Manufacturer
Inactive Model

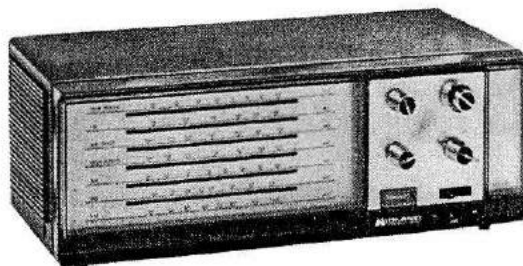
Rarity: Scarce

	New	Used
Price:	\$63	\$25-35
Rating:	★★	★



13-910

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Ext. Spkr Jack
- S-Meter
- Speaker
- Dial Lamp
- AFC [FM]
- Fine Tuning

Specifications:

Coverage See Comments Modes AM
Selectivity 8 kHz -6dB. Antenna Input . Terminals
Sensitivity <2 - 3 μ V

Comments:

Ranges: .54-1.6, 1.6-4, 4-12, 30-45 (VHF Low Band), 88-108 [FM], 108-135 (VHF Air) and 145-175 MHz (VHF High Band). Note that the shortwave coverage of this receiver is very limited, stopping at 12 MHz. Not a serious shortwave radio, but may be of interest for those wanting to sample the VHF air and public service bands.

Made In: Japan 1972-1973

Voltages: 117 VAC

Readout:  Analog

Physical: ?

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

Reviews: *Popular Elec.* December 1972

	New	Used
Price:	\$105	\$30-40
Rating:	★	★

41 Morrow Radio

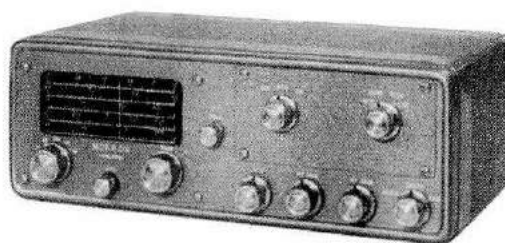
The **Morrow Radio Manufacturing** Company is best remembered for its line of mobile amateur band receivers, converters and transmitters.

The Company also produced the Morrow FTR Fixed Tuned Receiver. This compact mobile fixed tuned superheterodyne receiver has an input frequency of 1525 kHz. It is designed to work with the Morrow 5BRF converter to form a complete mobile receiver. The Morrow FTR also works with the 5BR, 5BRLN or any of 2 and 3BR series converters.

Morrow Radio Manufacturing Co.
2794 Market St.
Salem, Oregon 1956-1959



Falcon



General Coverage Communications Receiver
Double Conversion Superheterodyne. Tubes.

Features:

- BFO
- RF Gain
- Mute
- Dial Lamp
- AVC ON/OFF
- Squelch
- Standby
- Antenna Trimmer
- NL

Specifications:

CoverageHam. See Comments. Modes AM/CW
Selectivity4 kHz -6dB.
Sensitivity <1µV CW 14 dB S/N

Circuit Complement:

Crystal controlled second mixer.

Accessories:

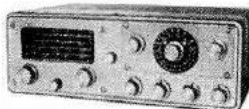
PW-115 115 VAC PS. BCT MW Tuner

Comments:

Ranges: 80 to 10 meters. Matches the model MB-560A transmitter. The Falcon appears to be the Morrow MBR-5 sans S-Meter and calibrator. Requires an external power supply. Designed for mobile use. Requires a speaker.

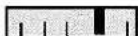
Variants:

The **Falcon BCT** included the Conelrad monitor and broadcast tuner accessory which is installed to the right of amateur dial (shown) \$189.



Made In: United States 1957-1959

Voltages: Requires Power Supply

Readout:  Analog

Physical: 11.75x4x7.125" 6.5 Lbs.
298x102x181mm 2.95 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	\$169	⑤
Rating:	⑦	⑦



MB-6

General Coverage Communications Receiver
Double Conversion Superheterodyne. 13 Tubes.



Features:

- S-Meter
- RF Gain
- Mute
- BFO
- AVC
- Standby
- Dial Lamp
- Squelch
- NL
- Calibrator 100 kHz.
- Antenna Trimmer

Specifications:

Coverage Ham. See Comments. Modes AM/CW
Selectivity 4 kHz -6dB.
Sensitivity <1μV CW

Circuit Complement:

Crystal controlled second mixer.

Accessories:


RAP-250S P.S. 115 VAC

Comments:

Ranges: 80 to 10 meters. Turret-type band display. Matches MB-565 Transmitter. Designed for mobile use. Requires an external power supply.

Made In: United States 1958-1959

Voltages: Requires Power Supply

Readout:  Analog

Physical: 11.5x4.125x7.25" 11 Lbs.
292x105x184mm 5 kg

Status: Inactive Manufacturer
Inactive Model

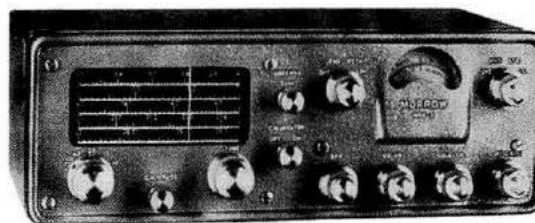
Rarity: Very Scarce

	New	Used
Price:	\$185-239	⑤
Rating:	⑦	⑦



MBR-5

General Coverage Communications Receiver
Double Conversion Superheterodyne. 13 Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- S-Meter
- AVC ON/OFF
- Standby
- BFO
- Squelch
- NL
- Calibrator 100 kHz.

Specifications:

Coverage Ham. See Comments. Modes AM/CW
Selectivity 4 kHz -6dB.
IF 1525, 200 kHz
Sensitivity <.5μV CW

Circuit Complement:

6BZ6 RF, 12AT7 Mixer/Osc, 6BJ6 IF, 6BE6 Mixer/Crystal Osc, 6BJ6 IF, 6T8 Detector/BFO, 6AL5 Noise Rectifier, 6AL5 Noise Limiter, 12AX7 Audio Amp/ Squelch, 6C4 Audio Amp, 6AQ5 Audio Output, 6BJ6 Crystal Cal. and 12AT7 Noise Amp/S-Meter.

Accessories:

PW-115 115 VAC PS.

Comments:

Ranges: 3.5-4, 7-7.3, 14-14.35, 21-21.45 and 28-29.7 MHz. Matches MB-560 Transmitter. Designed for mobile use. 'The 1/4" headphone jack is on the power supply - speaker.

Made In: United States 1955-1957

Voltages: Includes P.S. for 6/12 VDC.

Readout:  Analog

Physical: 11.75x4x6.5" 11 Lbs.
299x102x165mm 5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: QST May 1956

	New	Used
Price:	\$225	⑤
Rating:	⑦	⑦

42 Mosley Electronics Inc.

The **Mosley** company has been a respected manufacturer of amateur antennas for over fifty years.

In 1961 they briefly entered the amateur equipment market with their first and last offering, the Mosley CM-1 amateur receiver. This innovative design used five tubes and four diodes. The unique aspect of the circuit was that all five tubes were 6AW8A's.

Mosley continues to produce quality antennas for the amateur radio market.

Mosley Electronics Inc.

4610 N. Lindbergh Blvd.
Bridgeton, MO

1960-1974

Mosley Electronics Inc.

1344 Baur Blvd.
St. Louis, MO 63132

1990-1997



CM-1

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 5 Tubes plus Semiconductors



Features:

- 1/4" Head. Jack
- S-Meter
- Preselector
- BFO
- RF Gain
- ANL
- Dial Lamp
- Standby
- Mute Line
- VOX Terminals
- Speaker Terminals

Specifications:

CoverageHam Bands 80-10M. Modes AM/SSB/CW
Selectivity2.5 kHz -6dB. Stability <500 Hz after 1 min.
Sensitivity<.5μV 10 dB S/N IF Rejection >35 dB
Image Rej>35 dB Antenna Input . Terminals
Audio Out5W 6% Distortion

Circuit Complement:

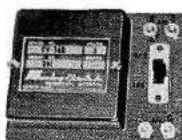
Amazingly, all five tubes are type 6AW8A. Crystal controlled first oscillator, diode detector for AM and product detector for CW/SSB. 5 Tubes and 4 semiconductors.

Accessories: CMS-1 Speaker CV-160 160M Converter (shown below)

Comments:

Ranges: 3.49-4.14, 6.86-7.51, 13.86-14.51, 20.86-21.51, 28.49-29.14, 29.09-29.74 and 27.99-28.64 MHz and WWV at 15 MHz. Frequency coverage from 14.49-15.14 MHz is achieved by placing the preselector knob to 15 MHz and the band switch to 40 meters. Frequency is read from the A scale of the dial. Requires a speaker.

Variants: The export version operates from 230 VAC 50-60 Hz.



Mfg. In: United States 1961-1962

Voltages: 115 VAC 50/60 Hz 33W

Readout:  Analog Lin.

Physical: 10.5x7x8"
267x190x203mm

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	\$170-183	\$100-140
Rating:	★★★	⑦

43 Multi-Elmac

The **Multi-Products Company** is best known for its line of compact mobile amateur receivers. First produced in the early fifties, production continued until the early sixties.

The Elmac A54 transmitter was the contemporary of the PMR-6A and can still be found on the used market, often with the receiver. The AF-68 transmitter is often found with the PMR-8.

The Elmac company also manufactured garage door and gate door controls and other special electronic products.

Multi-Products Company

559 East Ten Mile Road
Hazel Park, Michigan

1953-1956

Multi-Products Company

21470 Coolidge Highway
Oak Park 37, Michigan

1957-1962



PMR-6A

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 10 Tubes.



Features:

- NL
- BFO
- Antenna Trimmer
- Speaker Terminals
- AVC ON/OFF
- Dial Lamp

Specifications:

Coverage Ham 160-10M & MW Modes AM/CW-SSB
Selectivity 3 kHz -6dB. IF 1600, 455 kHz
Sensitivity <1μV Antenna Input . Motorola 50-72 ohms
Audio Out 3.5W 3-6 ohms

Circuit Complement:

6BJ6 RF Amp, 6BE6 1st Osc, 6C4 HF Osc, 6BE6 2nd Mixer Osc, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6AL5 Detector/NL, 12AT7 1st Audio Amp/BFO, 6BK5 Audio Output and OB2 Voltage Regulator. Has ten tuned circuits.

Accessories:

PSR-116 115 VAC PS PSR-116S 115 VAC PS & S-Meter
PSR-6 6 VDC PS PSR-12 12 VDC PS ESS-2 Ext. S-Meter

Comments:

Designed for mobile use. Ranges: .59-2, 3.5-4, 6.9-7.4, 13.95-14.45, 20.95-21.65 and 28-29.7 MHz. Requires a speaker. Gray metal cabinet.

Variants:

Model **PMR-12A** is the 12VDC version.

Made In: United States 1953-1954

Voltages: Requires Power Supply
See Accessories.

Readout: Analog

Physical: 6x4.5x8.5" 6.5 Lbs.
152x114x216mm 2.9 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$135	\$50-110
Rating:	⑥	⑦



PMR-7

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 10 Tubes.



Features:

- ¼ Head. Jack
- RF Gain
- AVC ON/OFF
- Squelch
- ANL
- Dial Lamp
- BFO
- Speaker Terminals
- Antenna Trimmer

Specifications:

Coverage Ham 160-10M & MW
Selectivity 3 kHz -6dB.
Sensitivity <.5µV CW
Audio Out 3 - 6 ohms

Modes AM/CW-SSB
IF 2238, 262 kHz
Antenna Input . Motorola 50-72 ohms

Circuit Complement:

6BZ6 RF Amp, 6BE6 1st Mixer, 6C4 HF Osc, 6BJ6 1st IF Amp, 6X8 2nd Mixer, 6BA6 2nd IF Amp, 6BJ6 Detector/AVC/ANL, 6AN8 1st Audio/Squelch, 12AU7 BFO/Amp and 6AQ5 Audio Output.

Accessories:

PSR-117 117 VAC PS PSR-612 6/12 VDC PS ESS-3 Ext. S-Meter

Comments:

Ranges: .54-1.6, 1.8-2, 3.5-4, 7-7.3, 14-14.4, 21-21.45 and 28-29.7 MHz. Headphone jack is on the rear panel. Designed for mobile use.

Variants:

Model **PMR-7A** 1958 \$159.

Made In: United States 1955-1957

Voltages: Requires Power Supply
See Accessories.

Readout: Analog

Physical: 7x4.675x11" 8.5 Lbs.
178x119x279mm 3.8 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST July 1956
CQ January 1957

	New	Used
Price:	\$159	\$60-110
Rating:	⑤	⑦



PMR-8

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 9 Tubes.



Features:

- ¼ Head. Jack
- RF Gain
- ANL
- Dial Lamp
- BFO
- Antenna Trimmer

Specifications:

Coverage Ham 80-6M +MW
Selectivity ±3 kHz -3 dB.
Sensitivity <.5µV SSB
Audio Out 1 W 10% dist. 3.2 ohms

Modes AM/CW-SSB
IF 2238, 262 kHz
Antenna Input . Motorola 50-72 ohms

Circuit Complement:

6DK6 RF Amp, 6BE6 1st Mixer, 6C4 HF Osc, 6BE6 2nd Mixer/Crystal Osc, 6BA6 2nd IF Amp, 6BJ7 Detector/AVC/ANL, 6AW8 1st Audio/BFO, 6AQ5 Audio Out and 3TF4 Filament Regulator. The circuit consists of one stage of RF amplification, a first mixer and stablized oscillator.

Accessories:

AS-1 Speaker 4" ESS-3 Ext. S-Meter M1010 PS 6/12VDC 115VAC

Comments:

Designed for mobile use. Ranges: .54-1.6, 3.5-4, 7-7.3, 14-14.4, 21-21.45, 28-29.7 and 50-52 MHz. Headphone jack is on the rear panel. Dark gray metal cabinet.

Made In: United States 1960-1961

Voltages: Requires PS
See Accessories.

Readout: Analog

Physical: 7x4.675x11" 8.5 Lbs.
178x119x279mm 3.8 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$190	\$70-100
Rating:	★★★★	⑦

44 National Radio

The **National Radio Company** was established in 1914 producing parts.

National's first amateur receivers included the **SW-5 Thrillbox** and the **SW-3**, both designed by the famous James Millen. The SW-3 started many of today's "old timers" in amateur radio. In the 1930's National introduced many innovative mechanical and electrical designs that came together in the first HRO model. In 1939 the company went public.

Like Hallicrafters and Hammarlund, National produced large quantities of equipment for the armed forces during World War II. Immediately after the conclusion of the war, National briefly ventured into consumer electronics. In the 1950's and 1960's the company became a significant contractor for military electronics. Its grip on the amateur market was slipping however, as hams chose the smaller, and in most cases, better offerings from Drake and Collins. The HRO-500 and HRO-600 were revolutionary for their time, but were not enough to save the company.

The value of nearly all National receivers continues to climb. The HRO series is particularly sought after by collectors. Prices for the HRO-500 and HRO-600 in good condition are rising steadily with no end in sight.

National Co. Inc.
61 Sherman St.
Malden, Mass.

1947-1957

National Radio Co. Inc.
37 Washington St.
Melrose 76, Mass.

1964-1971

NATIONAL COMPANY

HRO-5A1

General Coverage Communications Receiver
Single Conversion Superheterodyne. 12 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- AVC
- RF Gain
- NL
- Hinged Cover

Specifications:

Coverage 1700 - 30000 kHz Modes AM/CW
Selectivity 3/2 kHz -6dB. Sensitivity <1μV SSB/CW
Audio Out 3 W Antenna Input . Terminals

Accessories:

MCS Table Speaker RFSH Rack Speaker 697 PS 115/230 VAC
SPU-697 Rack PS MRR Table Rack

Comments:

Utilizes plug-in coil racks. Supplied tuning coil ranges: A 14-30, B 7-14.4, C 3.5-7.3, D 1.7-4 MHz. Other coils: E 900-2050, F 480-960, G 180-430, H 100-200, and J 50-100 kHz. Also: AA 27.5-30, AB 25-35 MHz and AC 21-21.5 MHz. Requires external 697 PS. Requires a speaker. Black metal cabinet. A very quiet receiver.

Variants:

Model **HRO-5A** was prior model. Model **HRO-5RA-1** was rack version. The model **HRO-5C** configuration features a 697 power supply and SPU697 speaker built into an MRR table-top rack.



Made In: United States 1946-1947

Voltages: 115 VAC 50/60 Hz 75W
using 697 PS.

Readout:  Micrometer Dial
and Coil Chart.

Physical: ?

Status: Inactive Manufacturer
Inactive Model

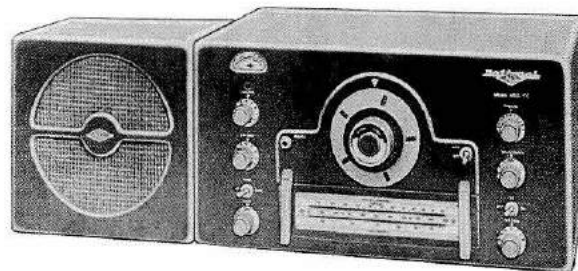
Rarity: Scarce

	New	Used
Price:	\$275-307	\$150-300
Rating:	⑥	⑦



HRO-7

General Coverage Communications Receiver
Single Conversion Superheterodyne. 12 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- RF Gain
- Hinged Top Cover
- ANL
- AVC
- Tone (2 Pos.)
- Phono Input
- Phono/Radio Switch

Specifications:

Coverage 1700 - 30000 kHz
Selectivity 6 Pos. .2-6.5 kHz
Sensitivity <1μV
Audio Out 5000 Ohm
Modes AM/CW
IF 456 kHz
Image Rej >30 dB @ 30 MHz.
Antenna Input . Terminals

Circuit Complement:

6K7 1st RF Amp, 6K7 2nd RF Amp, 6J7 1st Detector, 6C4 High Frequency Oscillator, 6K7 1st IF Amp, 6K7 2nd IF Amp, 6H6 Diode Detector/AVC, 6H6 Noise Limiter, 6SJ7 1st AF Amp, 6J7 BFO, 0A2 Voltage Reg. Two tuned RF stages and two IF stages.

Accessories: 697 PS 115/230 VAC SPU697 PS Rack 115/230VAC
686S PS 6VDC MCR Speaker (shown) Coils - see Comments
RFSH Rack Speaker MRR Rack Mounting NFM-07 NBFM Adapter

Comments: This model is sometimes referred to as the HRO-7T to indicate table version as opposed to the rack version. Supplied tuning coil ranges: A 14-30, B 7-14.4, C 3.5-7.3, D 1.7-4 MHz. Other coils: E 900-2050, F 480-960, G 180-430, H 100-200, and J 50-100 kHz. Requires a speaker (MCR shown). Power supply is separate. The 500 degree micrometer dial has an effective length of 90 inches.

Variants: Rack version is model **HRO-7R**. Model **HRO-7C** includes desk rack, 10" rack speaker and coil compartment \$358 (20.75x29x14.75").

Made In: United States 1947-1949

Voltages: 115/230 VAC 50/60 Hz
using 697 PS.

Readout:  Micrometer Dial
and Coil Chart.

Physical: 65 Lbs.

Status: Inactive Manufacturer
Inactive Model

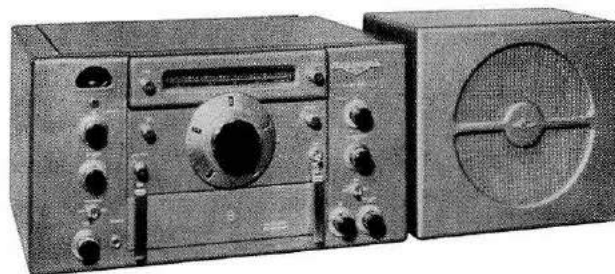
Rarity: Scarce

	New	Used
Price:	\$279-313	\$200-225
Rating:	⑥	⑦



HRO-50

General Coverage Communications Receiver
Single Conversion Superheterodyne. 14 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- Standby
- BFO
- Dial Lamp
- Tone Control
- Phono Input Tips
- Dimmer
- AVC

Specifications:

Coverage 1700 - 30000 kHz
Sensitivity <1μV 6 dB S/N
Selectivity 15-4 kHz 5 Pos.
Audio Out 8 W 8/500 ohm
Modes AMCW
IF 455 kHz
Antenna Input . Terminals

Circuit Complement: 6BA6 1st RF Amp, 6BA6 2nd RF, 6BE6 Mixer, 6C4 HF Osc, 0B2 Regulator, 6K7 1st IF, 6K7 2nd IF, 6H6 Detector/AVC, 6H6 BFO, 6J7 NL, 6H6 1st Audio, 6SJ7 Phase Inv/S-Meter, 6SN7 Audio, (2) 6V6 Rectifier, 5V4G Assc Crystal Cal, 6AQ5 NFM IF amp, 6SK7 Radio Detector and 6H6 Ratio Detector.

Accessories:

NFM-50 NBFM XCU Calibrator 100/1000 SOJ-3 Select-O-Ject (shown)
50TS Speaker (shown) 50RS Rack Speaker MRR2 Rack 650S 6VPS

Comments: Utilizes plug-in coil racks. Supplied tuning coil ranges: A 14-30, B 7-14.4, C 3.5-7.3, D 1.7-4 MHz. Other coils: E 900-2050, F 480-960, G 180-430, H 100-200, and J 50-100 kHz. Also: AA 27.5-30, AB 25-35 and AC 21-21.5 MHz. Built in power supply. Gray.

Variants: The **HRO-50C** configuration features a speaker and ten coil compartment built into a table-top rack. Model **HRO-50R** is rack version. Model **HRO-50-T1** 1951 \$384 (also rack version **HRO-50-R1**).



Made In: United States 1949-1950

Voltages: 115/230 VAC 50/60 Hz

Readout:  
Analog and Micrometer

Physical: Cabinet Version:
19.75x10.125x16.5" 95 Lbs.
501x257x420mm 43 kg
Rack Version:
19x10.5x17.5
483x267x444mm

Status: Inactive Manufacturer
Inactive Model

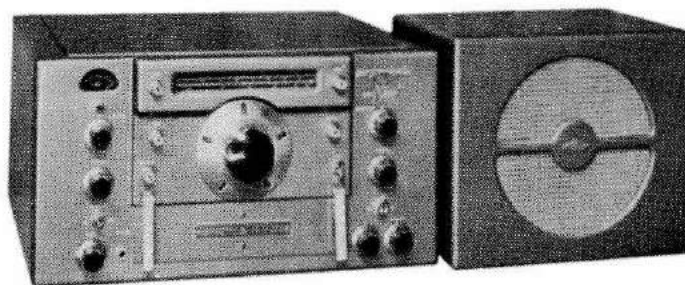
Rarity: Scarce

	New	Used
Price:	\$335-359	\$120-350
Rating:	⑥	⑦



HRO-60

General Coverage Communications Receiver
Double Conversion Superheterodyne. 18 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- Hinged Top Cover
- RF Gain
- Dial Lamp
- Dimmer
- Phono Input Jack
- Tone
- BFO
- AVC ON/OFF

Specifications:

Coverage 50-35000 kHz 50-54 MHz Modes AM/CW
Selectivity 6 Position Crystal Fil. IF 2010, 455 kHz
Sensitivity <1.7µV 6 dB 2-30 MHz. Image Rej >80dB 1.7-14.4 MHz
Audio Out 8 W 8 / 500 ohms Antenna Input . Terminals 50-300 ohms

Circuit Complement:

6BA6 1st RF Amp, 6BA6 2nd RF Amp, 6BE6 1st Freq Converter, 6C4 HF Osc, 6BE6 2nd Freq Converter, 6SG7 1st IF Amp, 6SG7 2nd IF Amp, 6SG7 3rd IF Amp, 6H6 Det/AVC, 6H6 NL, 6SN7GT S-Meter/Phase Inverter, 6SJ7 1st AF Amp, (2) 6V6GT Audio Out, 6SJ7 BFO, 0B2 Voltage Reg, 4H4C Current Reg, 5V4G Rectifier. Two RF stages and twelve tuned circuits at 455 kHz. Single conversion below 7 MHz.

Accessories: HRO-60T Spkr.(shown) HRO-60RS Rack Speaker
NFM-83-50 NBFM SOJ-3 Select-O-Ject XCU-60-2 Calibrator 100/1000
MRR-2 Rack 650S 6VDC Power Supply

Comments: Uses plug-in coil racks. Supplied tuning coil ranges: A 14-30, B 7-14.4, C 3.5-7.3, D 1.7-4 MHz. Other coils: E 900-2050, F 480-960, G 180-430, H 100-200, and J 50-100 kHz. Also: AA 27.5-30, AB 25-35, AC 21-21.5 and AD 50-54 MHz.

Variants: Model HRO-60R is rack version. HRO-60C includes MRR-2 & HRO-60RS.

Mfg. In: United States 1952-1962

Voltages: 115/230 VAC 50-60 Hz

Readout: Analog and Micrometer

Physical: Cabinet Version:
19.75x10.125x16.5" 85 Lbs.
502x257x419mm 38.5 kg
Rack Version:
19x10.5x17.6"
483x267x447mm

Status: Inactive Manufacturer
Inactive Model

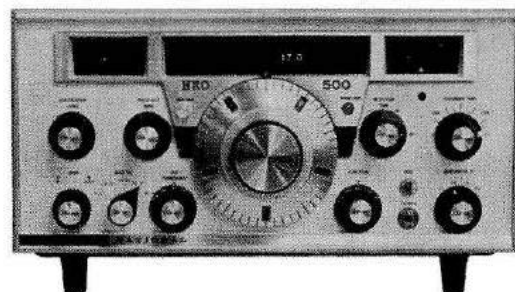
Rarity: Scarce

	New	Used
Price:	\$483-745	\$300-360
Rating:	⑥	⑦



HRO-500

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- PBT (.5/2.5 kHz)
- Dial Lock
- RF Gain
- Dial Lamp
- Preselector
- Calibrator 50 kHz
- Mute
- Notch
- 2 Tune Speeds
- AGC OFF/ON
- IF Out Jack
- Ext. Spkr Term.
- Line Out 600 ohm
- Atten. -10/20/30
- HFO Out Jack
- VFO Out Jack
- IF Out Jack
- BFO Output Jack

Specifications:

Coverage 5 - 30000 kHz Modes AM/LSB/USB/CW/FSK
Selectivity 8/5/2.5/.5 kHz -6dB. Stability <100 Hz per day
Sensitivity <1µV SSB/CW IF 2.75-3.25 MHz, 230 kHz.
Image Rej 50-80 dB Antenna Input . SO239 and RCA
Audio Out 1 W 4.4% dist. 3.2 ohm Environment ... -20° to +45° 90% Humid

Circuit Complement: 37 Transistors and 21 diodes.

Accessories:

RMK-5 Rack Kit LF-10 LF Preselector HRO-500TS Speaker
WPC-5 Carry Case BP-8 NiCad Battery

Comments:

Digital readout to 500 kHz. Analog to 1 kHz marks (24 ft/MHz). Tuning at 10 or 50 kHz per main knob revolution. Operations is via 60 500 kHz bands. Requires speaker. PBT on .5 and 2.5 kHz filters only. An outstanding receiver. VLF sensitivity improves from 25-50 µV to 1 µV with addition of LF-10. [¥134000]

Variants: HRO-500P Portable version with built-in speaker, BP-8 and WPC-5.

Made In: United States 1964-1973

Voltages: 115/230 VAC 50/60Hz 22W
or 12.6 VDC 200 ma.

Readout: Digital Mech. & Micrometer

Physical: 16.5x7.675x12.75" 32 Lbs.
419x195x324mm 14.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: Monitor. Times March 1985
Popular Elec. August 1965
WRTH 1976

	New	Used
Price:	\$1300-1995	\$600-1500
Rating:	★★★★★	★★★★★

HRO-600

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- S/AF-Meter
- BFO ± 3 kHz
- IF Out Jack
- Dial Lock
- Preselector
- Ext. Spkr Jack
- AGC SLO/MED/FST
- Rack Ears
- Atten.
- Line Out 600 ohm

Specifications:

Coverage 16 - 30000 kHz
Selectivity 8/2.4/2/1/.35 kHz -6dB.
Sensitivity375 μ V SSB/CW
Image Rej >90 dB
Audio Out 1 W 10% dist.

Modes AM/LSB/USB/CW/FSK
Stability ± 20 Hz after 30 min.
IF Rejection >90 dB
Antenna Input . SO239
Environment ... -20° to +55°C 95% Humid

Accessories:

Rack Kit
620 Noise Blanker
630 IBS Converter

650 FSK Converter
640 Preselector
670 Remote

610 DC PS
660 Diversity

Comments: Had motorized preselector tuning with bypass. Manufactured with three different VFO assemblies. Type 601 (shown above) featured a large conventional tuning knob and Nixie tube display for the 100 kHz, 10 kHz, 1 kHz and 100 Hz positions. Type 602 featured thumbwheel digits for the same positions (shown bottom right). Type 603 with four channel fixed frequency module is very scarce. The National HRO-600 a rare and highly collectable model. Caution: replacement Nixie tubes are becoming hard to find.



Made In: United States 1970-1979

Voltages: 117/234 VAC 50W or
12.6 VDC 200 ma.

Readout: Digital Mech
or Digital Nixie

Physical: 17x5.25x15.5" 39 Lbs.
432x133x394mm 17.7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: *Comm. World* 1977

	New	Used
Price:	\$2900-3732	\$1800-3400
Rating:	★★★★★	★★★★★

NATIONAL COMPANY

NC-2-40C

General Coverage Communications Receiver
Single Conversion Superheterodyne. 12 Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- AVC
- S-Meter
- Tone
- Dial Lamp
- Standby
- BFO
- Speaker Jack
- Bandsread
- Hinged Top Cover

Specifications:

Coverage 490 - 30000 kHz
Selectivity 6 Pos. 2 - 7.5 kHz -6dB.
Sensitivity 1 μ V for 1W output
Audio Out 8 W

Modes AM/CW
IF 455 kHz
Antenna Input . Terminals

Circuit Complement:

6SK7 RF Amp, 6K8 Mixer, 6J5 H.F. Osc, 6K7 1st IF Amp, 6SK7 2nd IF Amp, 6SL7GT 2nd Detector/Limiter, 6SJ7 AVC, 6SJ7 BFO, 6SN7GT Amp/Phase Inverter, (2) 6V6GT Power Output and 5Y3GT Rectifier.

Accessories:

NC-2TS Table Speaker NC-2RS Rack Speaker

Comments:

Ranges: .49-1, 1-2, 1.7-4, 3.5-7.3, 7-14.4 and 14-30 MHz. Requires a speaker. This model is sometimes referred to as the NC-2-40CT to indicate table version as opposed to the rack version.

Variants: Model **NC-2-40CR** is rack version. Model **NC-2-40CS** is identical but covers from 200 to 400 and 1000 to 30000 kHz. Model **NC-2-40CSR** is rack version of NC-2-40CS.

Made In: United States 1946-1947

Voltages: 110-120 or 220-240 AC
50-60Hz or external batteries

Readout: Analog

Physical: 85 Lbs

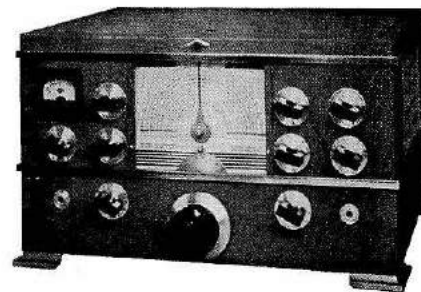
Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$225-250	⑤
Rating:	⑥	⑦

NC-2-40D

General Coverage Communications Receiver
Single Conversion Superheterodyne. 12 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Standby
- Bandsread
- RF Gain
- Tone
- NL
- Hinged Top Cover
- Dial Lamp
- 60:1 Tune Ratio
- Phono Input Jack

Specifications:

Coverage 490 - 30000 kHz Modes AM/CW
Selectivity 6/4/2/1/2 kHz -6dB. IF 455 kHz
Sensitivity 1-2.6µV 6 dB Antenna Input . Terminals
Audio Out 8 W 10000 ohm

Circuit Complement:

6SK7 RF Amp, 6K8 Mixer, 6J5 Osc, 6K7 1st IF Amp, 6SK7 2nd IF Amp, 6SL7GT 2nd Detector/Limiter, 6SJ7 CW-Osc, 6V6GT AVC, 6SN7GT AF-Phase Inverter, (2) 6V6 Power Output and 5Y3GT Rectifier.

Accessories:

NC-2TS Speaker NC-2RS Rack Speaker

Comments:

Ranges: .48-1.04, .92-2.1, 1.68-4.05, 3.4-4.05, 3.4-7.4, 6.9-7.35, 6.65-14.6, 13.8-14.46, 13.9-31 and 26.9-30.05 MHz. Requires a speaker. This model is sometimes referred to as the NC-2-40DT to indicate table version as opposed to the rack version. Two-tone gray metal cabinet.

Variants:

Model **NC-2-40DR** is rack mount version.

Made In: United States 1947-1948

Voltages: 110-120/ 220-240VAC 70W
50-60Hz or external batteries

Readout:  Analog

Physical: 19.25x10.675x15.5" 65 Lbs.
489x271x393mm 29.5 kg

Status: Inactive Manufacturer
Inactive Model

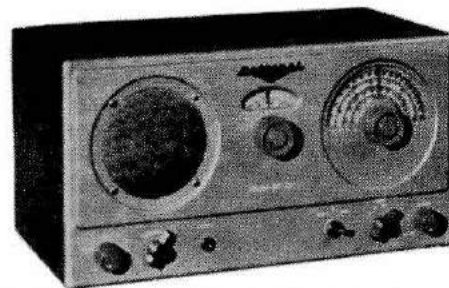
Rarity: Scarce

	New	Used
Price:	\$225-242	⑤
Rating:	⑥	⑦



NC-33

General Coverage Communications Receiver
Single Conversion Superheterodyne. 6 Tubes.



Features:

- 1/4" Head. Jack
- Standby
- Dial Lamp
- Bandsread 0-100
- Speaker 5"
- BFO
- ANL

Specifications:

Coverage 500 - 35000 kHz Modes AM/CW
IF 456 kHz Antenna Input . Terminals
Audio Out 1.5 W 3.2 ohm

Circuit Complement:

12SA7 Converter, 12SG7 IF Amp, 12H6 2nd Detector/AVC/ANL, 12SL7 1st Audio/BFO, 35L6GT Audio Output and 35Z5GT Rectifier.

Accessories:

Comments:

Ranges: .5-1.42, 1.42-4.2, 4-12 and 12-35 MHz. Gray metal cabinet.

Made In: United States 1948-1950

Voltages: 105-125 V 50-60 Hz
AC or DC.

Readout:  Analog

Physical: 16.675x8.75x8.5" 21 Lbs.
423x222x216mm 9.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$58-66	\$40-60
Rating:	⑥	⑦

NC-46



General Coverage Communications Receiver
Single Conversion Superheterodyne. 10 Tubes.

Features:

- 1/4" Head. Jack
- Sensitivity
- AVC ON/OFF
- Dial Lamp
- Mute Line
- Tone (HI/LO)
- NL
- Bandsread 0-100
- Hinged Top Cover

Specifications:

Coverage 550 - 30000 kHz. Modes AM/CW
Selectivity 4 kHz -6dB IF 455 kHz
Sensitivity <5 µV Antenna Input . Terminals
Audio Out 3 W 8 ohm

Circuit Complement:

6K8 Converter, 6SG7 1st IF Amp, 6H6 2nd Detector, 6SF7 AVC, 6SJ7 BFO, 6SC7 Amp Phase Inverter, (2) 25L6GT Power Output and 25Z5 Rectifier.

Accessories:

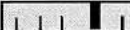
NC-46TS Speaker

Comments:

Ranges: .54-1.6, 1.55-4.6, 4.4-12 and 11.5-30 MHz. Bandsread: 3.5-4, 7-7.3, 14-14.4 and 28-30 MHz. Requires a speaker.

Made In: United States 1946-1948

Voltages: 110-130 VAC 50/60Hz
55W

Readout:  Analog

Physical: 17.375x9.5x12.375" 32 Lbs.
441x241x314mm 14.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$98-107	⑤
Rating:	⑥	⑦



NC-57



General Coverage Communications Receiver
Single Conversion Superheterodyne. 9 Tubes.

Features:

- 1/4" Head. Jack
- Speaker 5"
- Standby
- Mute Line
- S-Meter Jack
- BFO
- ANL
- RF Gain
- Tone
- Dial Lamp
- Antenna Trimmer
- Bandsread 0-100
- Hinged Top Cover

Specifications:

Coverage 540 - 54000 kHz Modes AM/CW
Selectivity 4.2 kHz -6dB IF 455 kHz
Audio Out 1.5 W 3.2 ohm Antenna Input . Terminals

Circuit Complement:

6SG7 RF Amp, 6SB7Y Converter, (2) 6SG7 IF Amp, 6H6 Detector/AVC/ANL, 6SN7 Audio Amp/BFO, 6V6GT Audio Amp, 5Y3GT Rectifier and 0D3/VR150 Voltage Regulator. One RF and two IF stages.

Accessories:

SM-57 Ext. S-Meter NC-686S 6VDC PS Select-O-Ject

Comments:

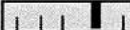
Ranges: .54-1.55, 1.55-4.4, 4.4-12, 12-35 and 35-54 MHz. Gray metal cabinet.

Variants:

Model **NC-57B** has different tubes 1951 \$99. Model **NC-57C** covers 190-410 and 540-35000 kHz 1951 \$99. Model **NC-57M** marine version covers 200-400 and 540-35000 kHz and is AC/DC 1950-1951 \$99.

Made In: United States 1947-1950

Voltages: 105-130 VAC 50-60 Hz
84W or 110-130 VDC

Readout:  Analog

Physical: 16.5x11.75x8.75" 31 Lbs.
419x298x222mm 14 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$90-100	⑤
Rating:	⑥	⑦



NC-60 Sixty Special

General Coverage Communications Receiver
Single Conversion Superheterodyne. 5 Tubes.

Features:

- 1/4" Head. Jack
- Speaker 5"
- Bandsread 0-100
- Standby
- Dial Lamp

Specifications:

Coverage 540 - 31000 kHz Modes AM/CW
IF 455 kHz Antenna Input . Terminals 50-300 ohms

Circuit Complement:

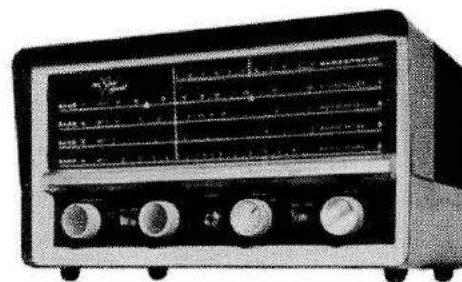
12BE6 Osc/Converter, 12BA6 IF Amp/CW Osc, 12AV6 Detector/AVC/1st Audio Amp, 50C5 Power Amp and 35W4 Rectifier.

Comments:

Ranges: .55-1.6, 1.6-4.5, 4-12, and 10.5-31 MHz.

Variants:

Model **NC-60 Special A** and **NC-60 Special B** differences are unknown.



Made In: United States 1959-1964

Voltages: 115 VAC or 115 VDC

Readout:  Analog

Physical: 13.5x7.675x8.675" 12 Lbs.
343x195x220mm 5.4 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$60	\$30-40
Rating:	★★★	★



NC-77X

General Coverage Communications Receiver
Single Conversion Superheterodyne.

Features:

- 1/4" Head. Jack
- Dial Lamp
- Bandsread 0-100
- Speaker 5"

Specifications:

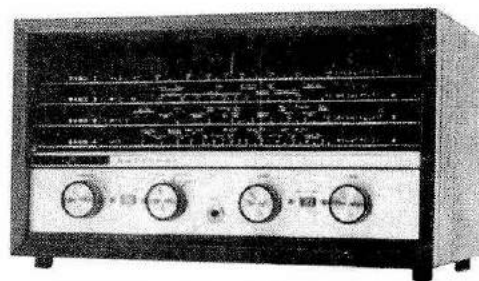
Coverage 540 - 31000 kHz Modes ?
Audio Out 1 W Antenna Input . Terminals

Comments:

Requires a speaker.
The author welcomes additional specifications on this model.

Variants:

Model **NC-77XW** features a walnut case \$90.



Made In: United States 1963-1966

Voltages: 117VAC

Readout:  Analog

Physical: 13.5x7.675x9" 18 Lbs
343x195x229mm 8.1 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Unknown

	New	Used
Price:	\$70	⑤
Rating:	⑥	⑥



NC-88

World Master

General Coverage Communications Receiver
Single Conversion Superheterodyne. 9 Tubes



Features:

- 1/2" Head Jack
- Sensitivity
- Phono Input Jack
- Antenna Trimmer
- Speaker 5"
- Pitch
- Tone (HI/LO)
- Bandsread
- Standby
- Dial Lamp
- NL

Specifications:

Coverage 540 - 40000 kHz
Selectivity 5.2 kHz -6dB
Sensitivity <5μV 10 dB S/N
Audio Out 1.5W 4-8 ohms

Modes AM/CW
IF 455 kHz
Image Rej 18-67 dB
Antenna Input . Terminals

Circuit Complement:


6BA6 RF Amp, 6BE6 Mixer, 6C4 Osc, 6BD6 1st IF Amp, 6BD6 2nd IF Amp, 6AL5 2nd Detector/AGC/ANL, 12AX7 1st Audio/CW Osc, 6AQ5 Audio Output and 5Y3GT Rectifier. One RF and two IF stages.

Comments:

Ranges: .54-1.6, 1.6-4.7, 4.7-14 and 14-40 MHz. Bandsread: 3.5-4, 6.9-7.3, 14-14.35, 20.4-21.5 and 27-30 MHz. Model **NC-88SW** is an SWL version with bandsread calibrated for the 17, 19, 25, 31 and 49 shortwave meter bands. Gray metal cabinet. Similar to the NC-98 sans S-Meter and crystal filter.

Made In: United States 1953-1956

Voltages: 105/120 VAC 50-60 Hz
62W

Readout:  Analog

Physical: 16.5x8.75x10.5" 30 Lbs.
419x222x269mm 13.6 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$100-130	\$60-70
Rating:	⑥	⑦



NC-98

General Coverage Communications Receiver
Single Conversion Superheterodyne. 9 Tubes



Features:

- 1/2" Head Jack
- S-Meter
- Phono Input Jack
- Antenna Trimmer
- RF Gain
- Pitch
- Tone HI/LO
- Bandsread
- Standby
- Dial Lamp
- Sensitivity
- Hinged Top Cover

Specifications:

Coverage 540 - 40000 kHz
Selectivity 3 position 5.2-.2 kHz
Sensitivity <5μV 10 dB S/N
Audio Out 3.2 ohm

Modes AM/CW
Image Rej 18-67 dB
IF 455 kHz
Antenna Input . Terminals

Circuit Complement:

6BA6 RF Amp, 6BE6 Mixer, 6C4 Osc, 6BD6 1st IF Amp, 6BD6 2nd IF Amp, 6AL5 2nd Detector/AGC/ANL, 12AX7 1st Audio/CW Osc., 6AQ5 Audio Output, 5Y3GT Rectifier. One RF and two IF Stages.

Accessories:

NC-98TS Speaker NFM-83-50 FM Adapter

Comments:

Ranges: .54-1.6, 1.6-4.7, 4.7-14, and 14-40 MHz. Bandsread: 3.5-4, 6.9-7.3, 14-14.35, 20.4-21.5, 27-30 MHz. The NC-98 is similar to the NC-88 but with S-Meter and Crystal Filter.

Variants:

Model **NC-98SW** is an SWL version with bandsread calibrated for the 17, 19, 25, 31 and 49 shortwave meter bands.

Made In: United States 1954-1956

Voltages: 105-130 VAC 50-60 Hz
62W

Readout:  Analog

Physical: 16.5x8.75x10.5" 30 Lbs.
419x222x269mm 13.6 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST August 1954

	New	Used
Price:	\$150	\$90-120
Rating:	⑥	⑦



NC-105

General Coverage Communications Receiver
Single Conversion Superheterodyne. 6 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- RF Gain
- NL
- Speaker 5"
- Q-Multiplier
- Line Out Jack
- Bandsread 0-100
- Pitch
- Standby
- Dial Lamp

Specifications:

Coverage 550 - 30000 kHz Modes AM/CW/SSB
Selectivity5-5 kHz -6dB. IF 455 kHz
Audio Out 3.2 ohm Antenna Input . Terminals

Circuit Complement:

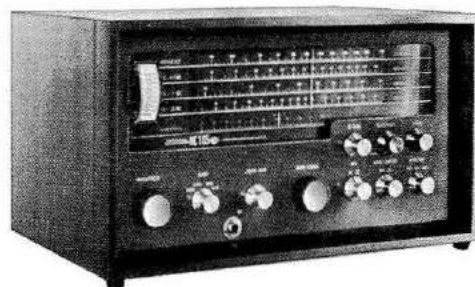
6BE6 Converter, 6BA6 IF Amp, 6BA6 IF Amp, 6T8 AM Detector/ANL/Audio Amp, 6AW8 Audio Amp/Detector and 6X4 Rectifier.

Comments:

Ranges: .54-1.6, 1.6-4.5, 4-12 and 12-30 MHz.


Variants:

Model **NC-105W** (shown) features a walnut enclosure \$140.



Made In: United States 1961-1964

Voltages: 105-125 VAC 50-60 Hz 49W

Readout:  Analog

Physical: 13.5x7.675x8.675" 25 Lbs.
343x195x220mm 11.3 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST April 1962
CQ September 1962

	New	Used
Price:	\$90-120	\$30-55
Rating:	⑥	⑦



NC-109

General Coverage Communications Receiver
Single Conversion Superheterodyne. 11 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- Bandsread
- Sensitivity
- Dial Lamp
- Tone HI/LO
- BFO
- Mute
- Standby
- ANL

Specifications:

Coverage 540 - 40000 kHz Modes AM/CW/SSB
Selectivity 6 Position 5.2-.2 kHz Stability <.01%
Sensitivity <1-2 µV 10 dB S/N IF 455 kHz
Audio Out 1.5 W 3.2 ohm 10% dist. Antenna Input . Terminals 50-300 ohms

Circuit Complement:

6BA6 RF Amp, 6BE6 Mixer, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6AL5 Detector/AGC/NL, 6BE6 Detector/BFO, 12AT7 AF/S-Meter, 6AQ5 Output, 6C4 Osc, 5Y3GT Rectifier and 0B2 Regulator. Separate product detector for SSB.

Accessories:

NTS-1 Speaker XCU-109 Calibrator 100 kHz NFM-83-50 FM Adapter

Comments:

Ranges: .54-1.6, 1.6-4.7, 4.7-15, and 14-40 MHz. Bandsread: 3.5-4, 6.9-7.3, 14-14.35, 20.4-21.5 and 27-30 MHz. Requires a speaker. Promoted as "America's lowest priced SSB receiver". See model NC-188. [¥92,700].



Made In: United States 1957-1960

Voltages: 105-130 VAC 50-60 Hz

Readout:  Analog

Physical: 16.875x10x10.875" 32 Lbs.
428x254x276mm 14.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST January 1958

	New	Used
Price:	\$200-206	\$90-120
Rating:	⑥	⑦

NC-121

General Coverage Communications Receiver
Double Conversion Superheterodyne.

Features:

- 1/4" Head. Jack
- S-Meter
- NL
- Q-Multiplier
- RF Gain
- Speaker 5"
- Dial Lamp
- Bandsread
- ANL
- Standby
- AGC
- Tuner Output

Specifications:

Coverage540 - 30000 kHz Modes AM/CW/SSB
Antenna Input Terminals

Comments:

Requires speaker.

Variants:

Model **NC-121W** features a walnut case. \$160.



Made In: United States 1963-1964

Voltages: 117 VAC

Readout:  Analog

Physical: 13.5x7.675x9" 28 Lbs.
342x195x229mm 12.7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$130	\$70-80
Rating:	⑥	⑦



NC-125

General Coverage Communications Receiver
Single Conversion Superheterodyne. 8 Tubes

Features:

- 1/4" Head. Jack
- S-Meter Jack
- RF Gain
- Antenna Trimmer
- Pitch
- Tone 4 pos.
- Bandsread
- Phono Input Jack
- Standby
- ANL
- AVC
- Hinged Cover
- Dial Lamp

Specifications:

Coverage550 - 36000 kHz Modes AM/CW
Selectivity4.1 kHz Sensitivity <4μV 10 dB S/N
Audio Out 1.5 W 3.2 ohm Antenna Input . Terminals 50-300 ohms

Circuit Complement:

6SG7 RF Amp, 6SB7Y Osc/Mixer, 6SG7 2nd IF, 6H6 2nd Detector/AVC/ANL, 6SL7GT 1st Audio/CWO, 6V6GT Audio Output, 0D3 Voltage Regualator and 5Y3GT Rectifier.

Accessories:

NC-125TS Speaker 686S 6VDC PS NFM73 NBFM


Comments:

The National Select-O-Ject is built into this model. Ranges: .55-1.6, 1.5-4.4, 4.4-12 and 12-36 MHz. Bandsread: 3.5-4, 6.9-7.3, 13.9-14.4, 19.9-21.5 and 26-30 MHz. Gray steel cabinet.



Made In: United States 1950-1956

Voltages: 110 VAC 60 Hz

Readout:  Analog

Physical: 16.5x11.75x8.25"
419x298x209mm

Status: Inactive Manufacturer
Inactive Model

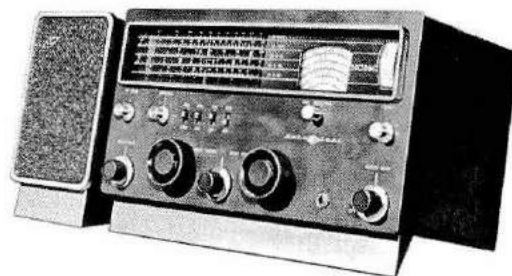
Rarity: Scarce

	New	Used
Price:	\$150-200	\$75-150
Rating:	⑥	⑦



NC-140

General Coverage Communications Receiver
Double Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- RF Gain
- Antenna Trimmer
- BFO
- AGC
- Bandsread
- Q-Multiplier
- Standby
- ANL
- Dial Lamp
- Tilt Bar

Specifications:

Coverage 540 - 30000 kHz
Selectivity 8 & Var. .15-5 kHz
Audio Out 3.2 ohm
Modes AM/CW
Sensitivity <1μV
Antenna Input . Terminals

Circuit Complement:

6BZ6 RF Amp, 12BE6 1st Mixer HF Osc, 12BE6 2nd Mixer/2nd Conversion Osc., 12BA6 IF Amp, 12AV6 AM Detector/Audio Amp, 6BN8 ANL/BFO, 6CW5 Output Amp and 5Y3GT Rectifier.

Accessories:

NTS-3B Speaker XCU-109 Calibrator 1000 kHz

Comments:

Shown with optional NTS-3B speaker. Ranges: .54-1.6, 1.6-4, 4-10, 10-20 and 20-30 MHz. Bandsread for 80 through 10 meters and five shortwave broadcast bands.

Made In: United States 1963

Voltages: 105-125 VAC 50-60 Hz

Readout:  Analog

Physical: ?

Status: Inactive Manufacturer
Inactive Model

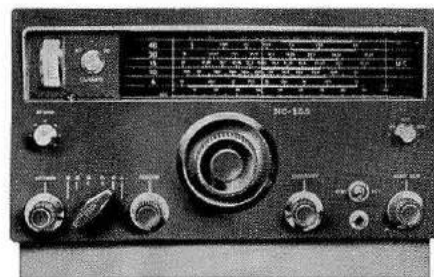
Rarity: Scarce

	New	Used
Price:	\$190	\$45-70
Rating:	⑥	⑦



NC-155

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 10 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter Jack
- RF Gain
- Antenna Trimmer
- BFO
- Tilt Bar
- ANL
- Standby
- Dial Lamp
- Flip Foot
- AGC
- 60:1 Tuning Ratio

Specifications:

Coverage Ham. See Comments. Modes AM/CW
Selectivity 5/3/.6 kHz. Stability <1kHz per 5 hours
Sensitivity <1μV 10 dB S/N IFs 2215, 230 kHz
Audio Out 1.5 W 3.2 ohm 10% dis. Antenna Input . Terminals

Circuit Complement:

6BZ6 RF Amp, 6BE6 1st Converter, 6BE6 2nd Converter, 6BA6 IF Amp/S-Meter, 6BA6 IF Amp, 6T8 AM Detector/ANL/Audio Amp, 12AX7 SSB Detector/BFO, 6CW5 Audio Amp, 5Y3GT Rectifier and 0B2 Regulator.

Accessories:

NTS3B Speaker XCU-109 Crystal Calibrator 1000 kHz

Comments:

Ranges: 3.5-4, 7-7.3, 14-14.4, 21-21.5, 28-29.7 and 50-54 MHz. Requires a speaker.

Made In: United States 1961-1964

Voltages: 105-120 VAC 50-60 Hz

Readout:  Analog

Physical: 15.5x8.675x9" 25 Lbs.
394x220x228mm 11.3 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST July 1962
CQ January 1963
73 June 1962

	New	Used
Price:	\$150-200	\$60-100
Rating:	⑥	⑦



NC-173T

General Coverage Communications Receiver
Single Conversion Superheterodyne. 13 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- Bandsread
- RF Gain
- Dial Lamp
- Tone
- Phono Input Jack
- Mute
- AVC ON/OFF
- AF Filter
- Hinged Top Cover
- Standby

Specifications:

Coverage54-31 & 48-56 MHz Modes AM/CW
Selectivity6 position IF 455 kHz
Sensitivity <3.5 μ V Antenna Input . Terminals
Audio Out3.5W 8 / 500 ohms

Circuit Complement:

6SG7 Tuned RF, 6SA7 1st Detector, 6J5 Osc, (2) 6SG7 IF, 6H6 2nd Detector/AVC, 6AC7 AVC, 6SJ7 BFO, 6H6 NL, 6SJ7 Audio, 6V6 Output, VR150 Regulator and 5Y3GT/G Rectifier.

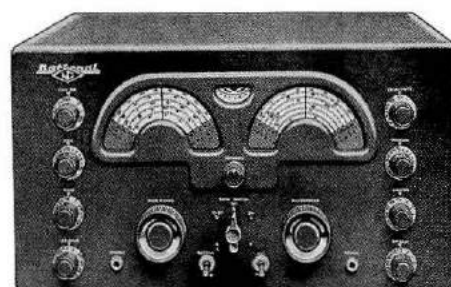
Accessories:

NC-173TS Speaker NC-173RS Rack Speaker NFM-73 FM Adaptor

Comments:


Ranges: .54-1.6, 1.6-4.3, 4.3-12, 12-31 MHz and 48-56 MHz. Bandsread: 80, 40, 20, 10 and 6 meters. Requires a speaker. Has the functions of the Select-O-Ject audio filter built in. Similar to the NC-183, but with one stage RF and single ended audio output. Built-in power supply. Gray metal cabinet.

Variants: Model **NC-173R** is rack version.



Made In: United States 1947-1950

Voltages: 115/230 VAC 50-60 Hz
83W

Readout:  Analog

Physical: 19.75x10.125x12.5" 42 Lbs.
501x257x317mm 19 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST July 1947

	New	Used
Price:	\$190-200	\$100-140
Rating:	⑤	⑦



NC-183T

General Coverage Communications Receiver
Single Conversion Superheterodyne. 16 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- Bandsread
- RF Gain
- Dial Lamp
- Tone
- Phono Input Jack
- Mute
- Standby
- NL
- Hinged Top Cover

Specifications:

Coverage54-31 & 48-56 MHz Modes AM/CW
Selectivity6 Position 3.5-.1 kHz IF 455 kHz
Sensitivity <2.5 μ V 10 dB 1.7-11 MHz Image Rej. >40dB at 28 MHz
Audio Out8 W 8/500 ohm Antenna Input . Terminals

Circuit Complement:

(2) 6SG7 RF, 16SA7 1st Det, 6J5 Osc, (2) 6SG7 IF, 6H6 2nd Det, 6SJ7 BFO, 6AC7 AVC, 6H6 NL, 6SJ7 AF, 6J5 Phase Inv, (2) 6V6GT Audio Out, VR-150 Reg and 5U4G Rectifier. Two RF stages and push-pull audio. Single conversion below 4.4 MHz.

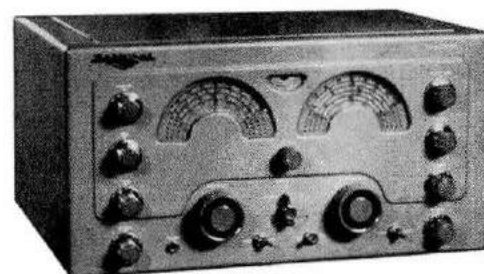
Accessories:

NC-183TS Speaker NC-183DRS Rack Speaker NFM-83 FM Adaptor
Select-O-Ject

Comments:

Ranges: .54-1.6, 1.6-4.3, 4.3-12, 12-31 and 48-56 MHz. Bandsread: 80, 40, 20, 11-10 and 6 meters. Requires a speaker. The Select-O-Ject was an external audio notch filter. Gray metal cabinet.

Variants: Model **NC-183R** rack mount version. Model **NC183D** is dual conversion and has different tubes 1952-57 \$370-449. Model **NC183DR** is the rack version.



Made In: United States 1947-1952

Voltages: 110/220 VAC

Readout:  Analog

Physical: 19.75x10.25x16.75" 65 Lbs.
501x260x425mm 29.4 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$268-279	\$100-150
Rating:	⑥	⑦



NC-188

General Coverage Communications Receiver
Single Conversion Superheterodyne. 9 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- Bandsread
- Sensitivity
- Dial Lamp
- Tone HI/LO
- BFO
- Standby
- ANL

Specifications:

Coverage 540 - 40000 kHz
Selectivity 5.2 kHz - 6dB
Sensitivity <2.5 μ V 10 dB S/N
Audio Out 1.5 W

Modes AM/CW
IF 455 kHz
Antenna Input . Terminals

Circuit Complement:

6BA6 RF Amp, 6BE6 Mixer, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6AL5 Detector/AGC/NL, 6C4 RF Osc, 5Y3 Rectifier, 12AT7 CW Osc/S-Meter/1st Audio Amp, 6AQ5 Audio Out Amp. Has an RF amp stage, two IF stages and two audio stages.

Accessories:

NTS-1 Speaker

Comments:

Ranges: .54-1.6, 1.6-4.7, 4.6-15 and 14- 40 MHz. Bandsread: 3.5-4, 6.9-7.3, 14-14.35, 20.4-21.5 and 27-30 MHz. Requires a speaker. Similar to NC-109 but without the crystal filter and product detector. See model NC-109.



Made In: United States 1957-1960

Voltages: 105-130 VAC 50/60 Hz

Readout:  Analog

Physical: 16.82x10x10.875"
427x254x276mm

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$160	\$80-100
Rating:	⑥	⑦



NC-190

General Coverage Communications Receiver
Double Conversion Superheterodyne. 10 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- Bandsread
- RF Gain
- Dial Lamp
- BFO
- Front Tilt Legs
- Mute
- Standby
- ANL
- AGC ON/OFF

Specifications:

Coverage 540 - 30000 kHz
Selectivity 5/3/.6 kHz
Sensitivity <1 μ V 10 dB S/N
Audio Out 1W 3.2 ohm

Modes AM/CW/SSB
IF 2215, 230 kHz
Antenna Input . RCA & Terminals

Circuit Complement:

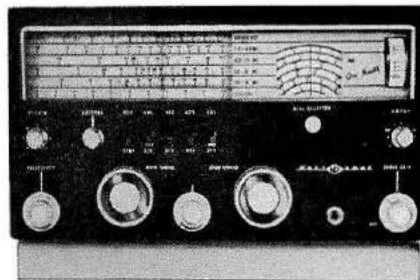
6BZ6 RF Amp, 6BE6 HF Converter, 6BE6 2nd Converter, 6BA6 IF Amp, 6BA6 IF Amp, 12AX7A Product Detector/BFO, 6T8 AM Detector/ANL/AGC/Audio Amp, 6CW5 Audio Out, 5Y3GT Rectifier and OB2 Regulator. Single conversion below 4 MHz.

Accessories:

NTS-3 Speaker XCU-109 Crystal Calibrator 1000 kHz

Comments:

Ranges: .54-1.6, 1.6-4, 4-10, 10-20 and 20-30 MHz. The Dial Selector knobs selects either amateur or shortwave bandsread. Amateur bands are shown in red: 80, 40, 20, 15 and 10 meters. The shortwave broadcast bands are shown in blue: 49, 31, 25, 19, 16 and 13 meters. Requires a speaker. The NC-190 has National's "cosmic" blue metal cabinet. 60 to 1 Bandsread tuning ratio.



Made In: United States 1961-1962

Voltages: 105-125 VAC 50-60 Hz
75W

Readout:  Analog

Physical: 15.75x8.75x9" 26 Lbs.
400x222x228mm 11.8 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

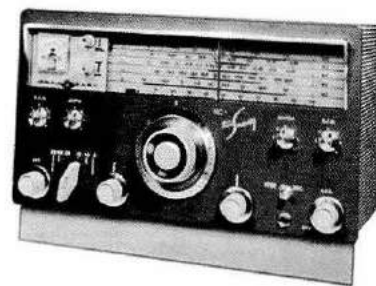
Reviews: 73 June 1961
QST October 1961

	New	Used
Price:	\$200-220	\$100-170
Rating:	⑥	⑦



NC-270

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 10 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Notch
- Antenna Trimmer
- RF Gain
- Dial Lamp
- BFO
- Calibrator 100 kHz
- Mute
- Standby
- Tilt Foot

Specifications:

Coverage Ham. See Comments. Modes AM/SSB/CW
Selectivity 5/3/2.5/.6 kHz -6dB.
Sensitivity <1.5 μ V 10 dB S/N IFs 2215, 230 kHz.
Audio Out 1.5W 3.2 ohm 10% dist. Antenna Input . Terminals and RCA Jack

Circuit Complement:

6BZ6 RF, 6BE6 Converter, 6BE6 Converter, 6BA6 IF, 6BA6 Product Detector, 6T8 Detector/AVC/ANL/Audio, 6CW5 AF Output, 12AU7 Calibrator/BFO, 5Y3GT Rectifier and 0B2 Voltage Regulator. Utilizes product and diode detectors.

Accessories:


NTS-3 Speaker

Comments:

Ranges: 3.5-4, 7-7.3, 14-14.4, 21-21.5, 28-29.7 and 50-54 MHz. This was the first model to feature National's dramatic "cosmic" blue metal cabinet.

Made In: United States 1960-1964

Voltages: 105-125 VAC 50-60 Hz
75W

Readout:  Analog

Physical: 15.75x8.75x9" 28 Lbs.
400x222x228mm 12.7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST January 1961
CQ May 1961

	New	Used
Price:	\$180-280	\$90-120
Rating:	⑥	⑦



NC-300

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 13 Tubes



Features:

- 1/4" Head. Jack
- S-Meter
- Phono Jack
- Antenna Trimmer
- RF Gain
- Dial Lamp
- Tone
- Cal Reset
- Mute
- 40:1 Tune Ratio

Specifications:

Coverage Ham. See Comments. Modes AM/SSB/CW
Selectivity 8/3.5/.5 kHz -6dB. Image Rej 50-60 dB
Sensitivity <1.5 μ V IF 2215, 80 kHz.
Audio Out 1W 8 ohms Antenna Input . Terminals 50-300 ohms

Circuit Complement:

6BZ6 RF Amp, 6AH6 HF Osc, 6BA7 1st Mixer, 6BE6 2nd Converter, 6BJ6 1st IF Amp, 6BJ6 2nd IF Amp, 6AL5 Detector/NL, 6BE6 CW Osc/Het Detector, 12AT7 S-Meter/AF Amp, 6AQ5 Audio Amp, 5Y3GT Rectifier, 0B2 Voltage Regulator and 4H4C Current Stabilizer.

Accessories:

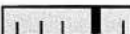
NC-300C2 2M Conv. NC-300C6 6M Conv. NC-300C1 1.25M Conv.
NTS-300TS Speaker XCU-300 Calibrator NC-300CC Conv. Cabinet

Comments:

Ranges: 1.8-2, 3.5-4, 7-7.3, 14-14.4, 21-21.5, 26.5-27.5 and 28-29.7 MHz. The radio dial is also pre-calibrated for the use of optional converters: 49.5-54.5, 143.5-148.5 and 220-225 MHz. Turret-type band display. Two-tone gray enameled cabinet. Requires a speaker.

Made In: United States 1955-1958

Voltages: 105-130 VAC 50-60 Hz
60W

Readout:  Analog

Physical: 19.5x11.25x15" 57 Lbs.
495x286x381mm 25.9 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST January 1956
CQ October 1955

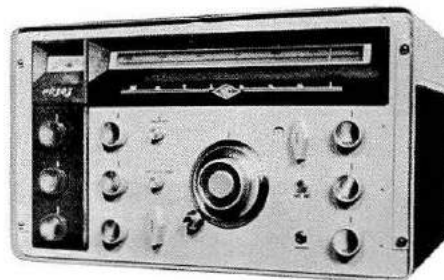
	New	Used
Price:	\$350-400	\$150-350
Rating:	⑥	⑦



NC-303

Amateur Band Communications Receiver

Double Conversion Superheterodyne. 15 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- ANL
- Antenna Trimmer
- RF Gain
- Dial Lamp
- Manual NL
- Tone Hi/Nor/Low/Peak
- Mute
- Cal Reset
- Vernier
- Q-Multiplier
- Standby

Specifications:

Coverage Ham. See Comments. Modes AM/SSB/CW
 Selectivity 8/3.5/2/4 kHz -6dB. IF 2175, 455 kHz
 Sensitivity 1.5µV 10 db S/N Image Rej 50-80 dB
 Audio Out 1 W 10% dist. Antenna Input . Terminals

Circuit Complement:

6BZ6 RF Amp, 6AH6 HF Osc, 6BA7 1st Mixer, 6BE6 2nd Converter, 12AX7 Q-Multiplier, 6BJ6 1st IF Amp, 6BJ6 2nd IF Amp, 6AL5 Det/NL/AGC, 6BE6 Product Detector, 12AT7 S-Meter/AF Amp, 6AQ5 Audio Amp, 5Y3GT High Voltage Rectifier, OB2 Voltage Regulator, 4H4C Current Stabilizer and 1N1692 AGC Clamp Diode.

Accessories:

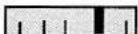
NTS-2S Speaker XCU-300 Calibrator XCU-303 Calibrator
 NC-300C2 2M Conv. NC-300C6A 6M Conv. NC-300C1 1.25M Conv.

Comments:

Ranges: 1.8-2, 3.5-4, 7-7.3, 14-14.4, 21-21.5, 26.5-27.5 and 28-29.7 MHz. The radio dial is also pre-calibrated for the use of converters: 49.5-54.5, 143.5-148.5 and 220-225 MHz. The XCU-303 also provides WWV reception at 10 MHz.

Made In: United States 1958-1962

Voltages: 105-130 VAC 50-60 Hz
70W

Readout:  Analog

Physical: 19.75x11.25x15" 60 Lbs.
502x286x381mm 27 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

Reviews: QST April 1959
CQ Decemer 1958

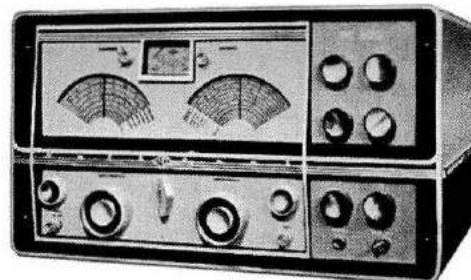
	New	Used
Price:	\$449	\$150-190
Rating:	⑥	⑦



NC-400

General Coverage Communications Receiver

Double Conversion Superheterodyne. 18 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Manual NL
- Antenna Trimmer
- RF Gain
- Dial Lamp
- IF Out Jack
- Mute
- Tone
- Bandsread
- Cal Reset
- HFO In Jack
- 5 Fixed Channels

Specifications:

Coverage 540 - 31000 kHz Modes AM/SSB/CW
 Selectivity 16/8/4/3.5 kHz -6dB. Stability002% after warmup
 Sensitivity 1µV 10 dB S/N Image Rej 80-100 dB
 IF 1720, 455 kHz Antenna Input . SO-239 & Terminals
 Audio Out 1 W 3.2 ohms 10% dist.

Circuit Complement: 6BZ6 1st RF Amp, 6BZ6 2nd RF Amp, 6BE6 1st Mixer 455 kHz, 6BE6 1st Mixer 1730 kHz, 6BE6 2nd Converter/Soc, 6BZ7 HF Osc, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 3rd IF Amp, 4H4C Fil. Reg, 6AL5 AM Detector/ANL, 6BE6 Het Det. 6AL5 Manual NL, 6U8 BFO, 12AT7 S-Meter/1st Audio, 6AQ5 Audio Amp, OB2 Voltage Regulator and 5U4GB Rectifier. Two tuned RF stages with three tuned circuits on all bands. Single conversion below 7 MHz.


Accessories:

NTS-2 Speaker XCU-400 Calibrator 100/1000 kHz
 MX-400 50 Fixed Freq. NC-400 DMK Diversity Modification Kit

Comments: Ranges: .54-1.1, 1.1-2.1, 2.1-4.1, 4.1-7, 6.9-12.2, 11.8-20.4 and 19.6-31 MHz. Bandsread: 3.5-4.1, 7-7.3, 13.7-14.5, 20.8-21.6 and 28-30 MHz. Has 5 crystal positions. Gray and black metal cabinet. Were used in F.B.I. field offices.

Made In: United States 1959-1963

Voltages: 115/230 VAC 50/60 Hz
138 W

Readout:  Analog

Physical: 19x11x16"
482x279x406mm

Status: Inactive Manufacturer
Inactive Model

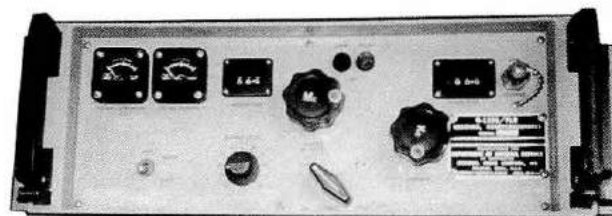
Rarity: Very Scarce

Reviews: QST February 1960
CQ April 1960

	New	Used
Price:	\$895-995	\$350-400
Rating:	⑥	⑦

R-1230/FLR

General Coverage Countermeasures Receiver
Double Conversion Superheterodyne. 32 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- AGC SLOW/FAST
- 100 kHz Tuning Meter
- DF Lo/Hi Lamps
- Rack Handles
- Dial Spinners
- VFO Out Jack

Specifications:

Coverage 2000 - 32000 kHz

Modes AM

Antenna Input . SO239

Circuit Complement:

16 Miniature tubes and 16 nuvistors. Barlow-Wadley upconversion.

Comments:

Ranges: 2-4, 4-8, 8-16 and 16-32 MHz. The large center knob tunes the 10 MHz, 1 MHz and 100 kHz positions which are displayed on an odometer type display to the right of the two meters. The right meter is labeled 100 KC TUNING. This shows when tuning lock is achieved. Then the 10 kHz, 1 kHz and 100 Hz positions are tuned by the second large knob and is displayed on the second odometer display. This is *not* a typical or complete receiver. It provides wideband output for further processing such as for direction finding. A separate power supply can support up to six receivers when used in a direction finding configuration. It is believed that the R-1230 was the last tube-type military receiver produced by National. This extremely interesting receiver has a plate on the front that states: R-1230/FLR RECEIVER, COUNTERMEASURES. MANUFACTURED FOR DEPARTMENT OF NATIONAL DEFENCE BY CONTRACTOR NATIONAL RADIO COMPANY. It may have been produced for the British or Canadian government. The tuning capacitor is reportedly gold plated.

Made In: United States

Voltages: (Separate power supply)

Readout: **00000.1** Dig. Mech.

Physical: 19"x5.75"x? ? Lbs

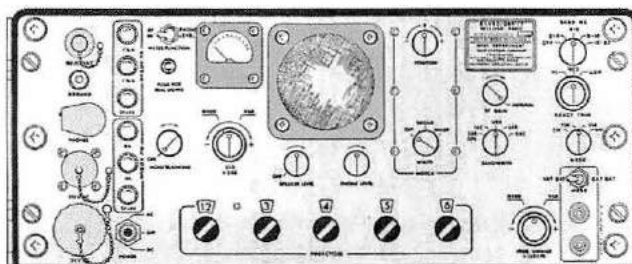
Status: Inactive Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑦

R-1490/GRR-17

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF-Meter
- RF Gain
- Modular Construction
- Speaker
- Notch Filter
- BFO ± 3 kHz
- Vernier ± 150 Hz
- Dial Lamp
- NB
- Antenna Trimmer
- Dial Lamp Switch
- Calibrator

Specifications:

Coverage 2000 - 30000 kHz

Selectivity 8/3/1/35 kHz -6dB.

Sensitivity 1.5 μ V 10 dB S/N CW

IF 112, 5 MHz.

Audio Out 1 W

Modes AM/CW/MCW/LSB/USB/FSK

Stability $\pm 1 \times 10^{-7}$ per day

Environment ... -40° to +65°C 95% Humid

Antenna Input . N 50 ohms

Made In: United States 1968-1970

Voltages: 115 VAC 50-400 Hz ot
24 VDC

Readout: **●●●●●.1** Dig. Knobs

Physical: 17x8x12.125" 43.6 Lbs.
431x203x308mm 19.8 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	①	\$450-950
Rating:	⑥	⑦

Comments:

This receiver is tuned via decadic (ten position) rotary knobs with one knob for each digit down to 100 Hz. A separate vernier knob permits fine tuning. The R-1490 has two hinged flanges which swing out and forward from each side. These allow for mounting in a 19" rack. Separate headphone jack and speaker volume controls are provided. This receiver may be found with its Transit Case (D43611G1). A built-in dry loop (switching function only) is provided to drive a radioteletype printer. This receiver was produced in fairly small numbers for the U.S. Marine Corps. An upconversion design with very high IF frequencies.



SW-54

General Coverage Communications Receiver
Single Conversion Superheterodyne. 5 Tubes.

Features:

- Phone Tip Jack
- Standby
- Bandsread 0-100
- Speaker
- Dial Lamp
- Spkr/Phones Switch

Specifications:

Coverage540 - 30000 kHz
Selectivity5 kHz -6dB.
Sensitivity15-50μV for 50 mw out
Audio Out1.8 W
Modes AM/CW
IF 455 kHz
Image Rej. 8-35 dB
Antenna Input . Terminals 50-300 ohms

Circuit Complement:

12BE6 Converter, 12BA6 CW Osc/IF Amp, 12AV6 2nd Detector/1st Audio/AVC, 50C5 Audio Out and 35Z5 Rectifier.

Comments:

Ranges: .54-1.6, 1.6-4.7, 4.6-14.5 and 12-30 MHz. A popular model fondly remembered by baby-boomers.



Made In: United States 1950-1957

Voltages: 105/130 VAC 50/60Hz 25W
or 105/130 VDC

Readout: Analog

Physical: 11x7x7" 13 Lbs.
279x178x178mm 5.9 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Common

	New	Used
Price:	\$50-60	\$40-65
Rating:	⑤	⑦



FRR-59A

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 64 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- Standby
- BFO
- Antenna Trimmer
- AGC
- RF Gain
- NL
- Calibrator 1000 kHz
- Rack Handles

Specifications:

Coverage2000 - 34000 kHz
Selectivity12/3/1/.35 kHz -6dB.
Image Rej.8-35 dB
Audio Out15 mw 600 ohm
Modes AM/LSB/USB/CW/FSK
IF 1625-1725, 220, 80 kHz
Stability 1 x 10⁻⁷ per day
Antenna Input . 50 ohms

Circuit Complement:

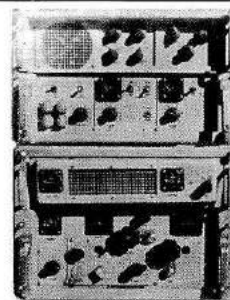
64 Tubes and 24 semiconductors.

Comments:

Ranges: 2-4, 4-8, 8-16 and 16-32 MHz. Dial accuracy is 100 Hz. This behemoth was envisioned to replace the R-390A. It was designed primarily for shore operation. Reportedly a very good performer, but certainly a maintenance challenge (not to mention a lifting challenge). Asking prices have been seen over at over \$2000, but the usual trading range is much lower.

Variants:

Model **WRR-2A** is similar, but is designed for shipboard use and is mounted in a cradle.



Made In: United States 1960-1965

Voltages: 105-125 VAC 50-60 Hz
250W

Readout: Mechanical

Physical: 25x22x24" 250 Lbs.
635x558x610mm 113 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$10,000	\$350-700
Rating:	⑤	⑦

45 Norlin Communications

Norlin Communications was a Washington belt-way defense contractor that manufactured a range of advanced communications equipment for the surveillance market. The company was previously known as Astro Communications Labs. It has been reported, but not confirmed, that both companies were fronts for Watkins-Johnson, producing equipment almost exclusively for the N.S.A.

The author does not know the exact fate of Norlin, only that many employees found their way across town to Racal or Watkins-Johnson.

Norlin Communications

9125 Gaither Rd.

Gaithersburg, MD 20760 1986-1991



SR-2070



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- IF Out Jack
- S-Meter
- ANL
- Rack Handles
- Line Out 600 ohm
- BFO ± 2 kHz
- Keypad
- Remote Port
- Three Tune Rates
- Atten. -20/40 dB
- Modular Construction

Specifications:

- Coverage 500 - 30000 kHz
- Selectivity 16/12/8/4/2/1 kHz -6dB¹
- Image Rej >80 dB
- Audio Out 1 W 8 ohms
- Environment .. 0° to +50° C.
- Modes AM/LSB/USB/CW/FM
- Stability 1×10^{-6} per day
- IF Rejection >90 dB
- Antenna Input . 50 ohm

Accessories:

DU2090 Display Memory Unit

Comments:

The LCD display is backlit. Designed for military and surveillance applications. Meets MIL-STD-461, Class 1A. ¹Only 3 IF filters are supplied as standard.

Variants:

Model SR-2093 (shown) is a VHF/UHF version with an identical appearance to the SR-2070. Model SR-2090 covers 20-500 MHz with different IF bandwidths and 1 kHz display resolution.

Made In: United States 1979-1988

Voltages: 115/230/240 VAC
47-400 Hz 100 W

Readout: 00000.01 Digital LCD

Physical: 19x5.25x21" 55 Lbs.
483x133x533mm 24.8 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	②
Rating:	⑥	⑥

Panasonic is one of the most recognized names in consumer electronics in the world. In shortwave circles, Panasonic is best known for their portable models. However, from the mid 1970's to the late 1980's they did offer several table-top digital communications receivers.

The RF-4800 and RF-4900 may be best described as analog radios with integrated digital counters. These substantial radios afforded pleasant audio, but lacked stability.

Panasonic's current involvement in the worldband market is limited to one digital and one analog portable.

Panasonic
Matsushita Electric Trading Co. Ltd.
 C.P.O. 288
 Osaka 530-91, Japan

Panasonic Co.
 One Panasonic Way
 Secaucus, NJ 07094

Panasonic

RF-3100



General Coverage Communications Receiver
 Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Light
- ANL
- S-Meter
- BFO
- Bass & Treble
- Tilt Bar
- Meter Lamp
- Speaker 3.5"
- FM 88-108 MHz.
- Light Switch
- Telescopic Antenna
- Record Jack
- Speaker Jack
- Shoulder Strap

Specifications:

Coverage 525 - 30000 kHz. +FM
 Selectivity 7/3 kHz -6dB. [200 FM]
 Sensitivity 1-1.4µV
 IF 10.695 MHz, 455 kHz
 Modes AM/SSB
 Image Ratio 30-60 dB
 Antenna Input . SO-239 & Terminals

Comments:

There is an antenna switch on the back that permits the selection from the built-in medium wave antenna to an external medium wave antenna or from a low to a high impedance antenna on shortwave. The filters are somewhat sloppy and stability is marginal, making this model unsuitable for single sideband reception. The audio is quite good yielding pleasant reception of amplitude modulated signals. It is single conversion on medium wave. This model has pleasant audio. The RF-3100 may be more properly classified as a portable than a communications receiver.

Variants:

Sold outside the U.S.A. as model **DR-31** or **RFB-30**.

Made In: Japan 1982-1985

Voltages: 120 AC 60 Hz
 or 8 D cells

Readout: **00001.** Digital Phs.

Physical: 14.6x4.8x9.5" 8 Lbs.
 371x122x241mm 3.6 kg

Status: Active Manufacturer
 Discontinued Model

Rarity: Abundant

Reviews: *WRTH* 1983
Passport 1987

	New	Used
Price:	\$289-319	\$150
Rating:	★★★	★★★

Panasonic

RF-4800

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- Mini Head. Jack
- ANL
- RF Gain
- Dial Lamp
- S-Meter
- Bass & Treble
- BFO
- Handles
- Antenna Trimmer
- Analog Sub-dial
- Speaker 4"
- FM 88-108 MHz.
- Two Tuning Speeds
- Aux Audio-In Jack
- Record Jack
- MW Ferrite Antenna

Specifications:

Coverage 525 - 31000 kHz. +FM Modes AM/SSB/CW
Selectivity 5/3.4 kHz -6dB. [200 FM] Stability <±500 Hz after 30 min.
Sensitivity 1-1.4µV 3-30 MHz. Antenna Input . Terminals
Image Ratio ... 30-60 dB Audio Out 2 W 10% distortion
I.F. 2 MHz, 455 kHz

Circuit Complement:

5 ICs, 3 FETs and 34 transistors. Single conversion below 3 MHz.

Comments:

Bands: .525-1.6, 1.6-3, 3-7, 7-11, 11-15, 15-19, 19-23, 23-27 and 27-31 MHz. and 88-108 MHz FM. The RF-4800 may be properly called an analog receiver with a digital counter display. The RF-4800 was not very stable. The band selector switches are the first components to wear on this model.

Variants:

Sold outside the U.S.A. as model **DR-48**. The Japanese domestic version is model **RJX-4800**.

Made In: Japan 1976-1978

Voltages: 120 AC 60 Hz 10W
or 12 VDC or 8 D cells

Readout: **00001.** LED

Physical: 19x7.875x14" 20 Lbs.
482x200x354mm 8 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Abundant

Reviews: *WRTH* 1978

	New	Used
Price:	\$450	\$150
Rating:	★★★	★

Panasonic

RF-4900

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- Mini Head. Jack
- ANL
- RF Gain
- Dial Lamp
- S-Meter
- Bass & Treble
- BFO
- FM 88-108 MHz.
- Antenna Trimmer
- Analog Sub-dial
- Speaker 4"
- Handles
- Two Tune Speeds
- Aux Audio-In Jack
- Record Jack
- MW Ferrite Antenna

Specifications:

Coverage 525 - 30000 kHz. +FM Modes AM/SSB/CW
Selectivity 5/3.4 kHz -6dB. Stability <±500 Hz after 30 min.
Sensitivity8-1.4µV 3-30 MHz. Antenna Input . SO-239 & Terminals
Image Ratio ... 30-60 dB Audio Out 2 W 10% distortion

Circuit Complement:

4 Integrated circuits, 3 FETs and 39 transistors. Single conversion below 3 MHz.

Comments:

Bands: .525-1.6, 1.6-3, 3-7, 7-11, 11-15, 15-19, 19-23, 22-26 and 26-30 MHz and 88-108 MHz FM. This radio is best described as an analog radio with a digital counter built-in. The readout is green in color. Like its predecessor model, the RF-4800, stability is not good. Black metal cabinet.

Variants:

Also sold out side the U.S.A. as model **DR-49**. The DR-49 rear panel features a second ferrite antenna for the European longwave broadcast band. The "LBS" DR-49 variant is 110-125/220-240 VAC and has 455 kHz second IF. The "LBE" DR-49 variant is strictly 240 VAC and has a 462 kHz second IF.

Made In: Japan 1979-1983

Voltages: 120 AC 60 Hz 10W
or 12 VDC or 8 D cells

Readout: **00001.** Digital Phs.

Physical: 19x7.875x14" 17.7 Lbs.
482x200x354mm 8 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Abundant

Reviews: *WRTH* 1980
Passport 1987

	New	Used
Price:	\$399-479	\$180
Rating:	★★★	★★

Panasonic

RF-B600

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- S/Batt. Meter
- ANL
- RF Gain
- Light
- Tilt Stand
- Mute Jack
- 1/4" Head. Jack
- Bass & Treble
- BFO
- Record Jack
- Carry Handle
- DC Input Jack
- 9 Memories
- Dial Lock
- Speaker 3.5"
- Keypad
- Memory Scan
- Display Switch
- Telescopic Antenna
- Two Tune Speeds
- Ferrite MW Antenna
- FM 87.5-108 MHz.
- Zone Scan ± 150 kHz

Specifications:

Coverage 150 - 29999 kHz. +FM Modes AM/SSB/CW
Selectivity 7/3 kHz -6dB. Stability $\leq \pm 50$ Hz after warm-up
Sensitivity 1.2 μ V S/N 6 dB @6 MHz Antenna Input . SO-239 & Terminals
Image Ratio ... 50 dB at 6 MHz Audio Out 2 W 10% distortion
I.F. 39.9-40 MHz, 450 kHz

Circuit Complement: 15 Integrated circuits, 9 FET's and 96 transistors. Single conversion below 1.611 MHz.

Accessories: RP-952 Car PS Adapter

Comments: Memories store frequency only. Built-in ferrite antenna for the medium wave band. Frequency gap from 420 to 520 kHz. The digital display may be turned off to conserve battery life. There is a switch on the back of the radio that permits the selection of the telescopic whip antenna or an external shortwave antenna. Note that the 12VDC input jack is center negative. List price \$699.

Variants: Also sold outside the U.S.A. as model **DR-B600**.

Made In: Japan 1984-1989

Voltages: 110-115/115-127/200-220/
230-250 VAC 50/60 Hz 16W
12VDC 3xAA cells 8xD cells

Readout: **00001.** Digital Flour.

Physical: 14.81x4.81x11.5" 10.2 Lbs
376x122x292mm 4.6 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Abundant

Reviews: *Pop. Comm.* March 1984
Mon. Times September 1988

	New	Used
Price:	\$440-650	\$250-280
Rating:	★★★	★★★

47 Phase Track

Phase Track Ltd. was established in the early 1980's.

The Liniplex receiver series is different from most receivers. A patented synchronous demodulation method for distortion free reception of double sideband signals provides audio that is unusually clear and stable.

The Liniplex F1 and F2 are fixed receivers that cannot be tuned. Rather, a crystal is required for each frequency desired. Crystal controlled reception affords several advantages. It affords very high resistance to vibration and audio feedback effects, very high local oscillator purity resulting in a minimum of receiver noise and spurious responses, very cost effective, nonvolatile frequency retention, minimized power and space requirements and reduced circuit complexity.

Phase Track products are used extensively by the British Forces Broadcasting Service.

Phase Track Ltd.

Unit B3,
Robert Cort Ind. Est., Reading,
Berkshire,
England

Phase Track Ltd.

16 Britten Road, Reading,
Berkshire, RG2 0AU
England

Phase Track Ltd.

132 Queens Road, Reading,
Berkshire, RG1 4DG
England



LINIPLEX F1



Fixed High Frequency Broadcast Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- Fine Tuning
- Speaker
- 9 Fixed Channels
- Speaker Jack
- Record jakc
- Synchronous Demodulation

Specifications:

Coverage Fixed within 2-26.5 MHz Modes AM/(LSB/USB ECSS)
Selectivity 4 kHz -6dB. AM Passband. 50-3400 Hz, -3 dB
Sensitivity <1.5 μ V -10 dB S/N SSB Spurious Resp <-60 dB
Audio Out 25 W 1% dist.. IF 35.4 MHz, 455 kHz
Environment .. 10° to 35° C Antenna Input . 300/1500 ohm

Accessories:

Line Output Option

Comments:

This receiver covers 9 frequencies in the range of 2 to 26.5 MHz with one crystal required for each frequency. Supplied with 9 crystals for BBC frequencies. A successful implementation of synchronous tuning. LSB/DSB/USB mode is self-tuned, or may be hard-selected. Has sturdy cast aluminum case.

Variants:

Model F1-2 is a 19" rack mounted configuration consisting of two receivers. Shown right.



Made In: England 1983-1988

Voltages: 120/240 VAC 50-60 Hz
or NiCad battery

Readout: Channel Ch. Display

Physical: 8x2.5x7.5" 4.2 Lbs.
193x63x203mm 1.85 Kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: *Passport* 1985/86, 1987, 1988
WRTH 1985
Pop. Comm. August 1986

	New	Used
Price:	\$700-928	\$200-350
Rating:	Ⓢ	Ⓢ



LINIPLEX F2



Fixed High Frequency Receiver

Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Meter
- AGC FST/SLO
- Line Out Jack
- Fine Tuning
- Speaker
- Synchronous Demodulation
- Ant. Imp. Switch
- 8 Fixed Channels

Specifications:

Coverage Fixed within .15-26.5 MHz Modes AM/(LSB/USB ECSS)
Selectivity 4 kHz -6dB. AM Passband . 50-3400 Hz, -3 dB
Sensitivity <1.5 μ V -10 dB S/N SSB Spurious Resp <-60 dB
Audio Out5 W 6 ohms IF 35.4 MHz, 455 kHz
Environment .. -10° to +45° C Antenna Input . SO239s 50/200 ohm

Accessories:

OSC-1 Synthesizer

Comments:

Housed in a high quality blue aluminum cabinet. The first rotary switch selects one of the eight channels or the "EXT OSC" position for use with the optional OSC-1 Synthesizer. The OSC-1, which is housed in the same cabinet size, permits continuous coverage reception from 2 to 22 MHz. The frequency is selected by five decade rotary switches on the front of the OSC-1.

Made In: England 1989-1991

Voltages: 90-265 VAC 50/60 Hz
or NiCad battery

Readout: **Channel** Ch. Display

Physical: 11.3x2.8x11" 5.3 Lbs.
288x72x280mm 2.4 Kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	\$1600	②
Rating:	⑩	⑩

48 Pierson-Holt

Pierson-Holt Electronics was established in 1954. This was the third radio company Karl Pierson was involved with. Pierson-Delane was established in 1937 and continued to 1943. After the war Pierson Electronics Corporation produced one receiver, the KP-81.

Pierson-Holt Electronics was sold to Automation Electronics in 1957. The KE-93 was produced until 1960.

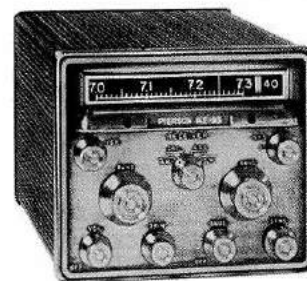
Pierson-Holt Electronics
2308 West Washington Blvd.
Venice, California 1954-1956

Automation Electronics Inc.
1500 W. Verdugo Ave.
Burbank, California 1957-1960

PIERSON - HOLT

KE-93

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 12 Tubes.



Features:

- Fine Tuning
- RF Gain
- Extl. S-Meter Jack
- Calibrator
- ANL
- BFO
- Mute
- Squelch (AM)
- Antenna Trimmer

Specifications:

CoverageHam. See Comments. Modes AM/SSB/CW
Selectivity3 kHz -6dB. Sensitivity <1µV
Audio Out3 W 10% distortion Antenna Input . 50 ohm

Circuit Complement:

6BZ6 RF, 6BE6 Mixer, 6BE6 Converter, 6BA6 IF Amp, 6BE6 IF Amp, 6AL5 2nd Detector/AVC, 12AX7 AF BFO, 6AQ5 Output, 6AU6 Noise Amp, 6AL5 Noise Rectifier Dampner, 6BA8A Threshold Squelch and 7HTF Ballast.

Accessories:

6-12 VDC P.S. 12 VDC PS
KE-110 AC PS/Speaker

Comments:

Designed for mobile use. Seven band revolving drum turret tuning dial. Coverage: 1650-3500, 3500-4030, 6990-7310, 13970-14360, 20990-21450 and 27950-30000 kHz plus MW 550-1650 kHz. The KE-93 initially included a power supply and external speaker. Later the power supply and speaker were sold as options. This model no longer frequently appears on the used market. As a result, an average used price is difficult to establish.

Made In: United States 1955-1960

Voltages: See Comments.

Readout:  Analog Lin.

Physical: 6x5x9"
152x127x229mm

Status: Inactive Manufacturer
Discontinued Model

Rarity: Very Scarce

Reviews: QST May 1958
CQ June 1960

	New	Used
Price:	\$199	⑤
Rating:	★★★★	⑦

The **Plessey** is a recognized name in British defense industry. They have many divisions including Plessey Military Communications, Plessey Radar and Plessey marine.

Plessey is now part of the giant Siemens corporation of Germany.

Plessey Company Ltd.

Radio Systems Division
Ilford, Essex
England

1965-1970

Plessey Electronic Systems

Avionics & Communications
Vicarage Ln., Ilford,
England

1979-1990

Siemens Plessey Electronic Sys.

Grange Road
Christchurch, Dorset
England BH23 4JE

1992-1997

PLESSEY Electronics



PR-155

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF-Meter
- BFO ± 8 kHz
- Line Out 600 ohm
- RF Gain
- Mute
- Speaker
- Line Out 150 ohm
- IF Out 100 kHz
- Ext. 1 MHz Jack
- 2 Tuning Speeds
- AGC SHT/MED/LNG
- Standby

Specifications:

- Coverage 15 - 30000 kHz
- Selectivity 12/6/3.5/1.4/3/15 kHz -6dB
- Sensitivity $< .5\mu V$ 20 dB S/N CW
- Image Rej > 100 dB < 20 MHz
- IF 37.3 MHz, 100 kHz
- Audio Out 4 W 15 ohms
- Modes AM/LSB/USB/CW
- Stability ± 30 Hz (after 4 hours)
- IF Rejection > 75 dB
- Antenna Input . SO239 75 ohm
- Environment ... -20° to $+50^\circ$ C. 95% Humid

Accessories:

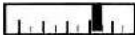
- RTTY Mode
- FAX Mode

Comments:

The MHz is selected by a rotary knob to the left of the main tuning knob. The kiloHertz film scale provides an amazing 70 inches of dial per MHz yielding an impressive 350 Hz tuning resolution. The main knob tuning can be set for 6 or 60 kHz per revolution. Brackets are supplied for mounting in a standard 19 inch rack. Designed for fixed commercial use.

Made In: England 1967-1969

Voltages: 100-125 200-250 VAC 40W
48-420 Hz or 24 VDC

Readout:  Analog Lin.

Physical: 16.75x7x17" 38 Lbs.
425x178x432mm 17.2 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	\$5000A	\$1000A
Rating:	⑤	⑥



PR-1550

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S/AF-Meter
- BFO ± 8 kHz
- Line Out 600 ohm
- RF Gain
- Mute
- Speaker
- AGC SLO/FST
- IF Out 100 kHz
- 2 Tuning Speeds

Specifications:

Coverage 15 - 30100 kHz
Selectivity 6/3/.3/ / / kHz -6dB.
Sensitivity $<.5\mu V$ 20 dB S/N CW
Image Rej >100 dB <20 MHz
IF 37.3 MHz, 100 kHz
Audio Out 4 W 15 ohms

Modes AM/LSB/USB/CW
Stability ± 30 Hz (after 4 hours)
IF Rejection >75 dB
Antenna Input . 75 ohm
Environment ... -20° to $+50^{\circ}$ C. 95% Humid

Accessories:

RTTY Mode FAX Mode

Comments:

The MHz is selected by a rotary knob to the left of the main tuning knob. The position of the Selectivity knob and the Audio Gain have been reversed from the PR155. Fewer filters are provided as standard equipment. Performance specifications are lower below 60 kHz. Designed for fixed commercial use.



Made In: England 1968-1969

Voltages: 100-125 200-250 VAC 65W
48-420 Hz or 24 VDC

Readout:  Analog Lin. & Digital Nixie

Physical: 16.75x8.75x17" 50 Lbs.
425x222x432mm 23 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



PR-1553

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S/AF-Meter
- BFO ± 8 kHz
- AGC SHT/MED/LNG
- RF Gain
- Mute
- Speaker
- Line Out 150 ohm
- IF Out 100 kHz
- Speaker Switch
- 2 Tuning Speeds
- Line Out 600 ohm
- ANL

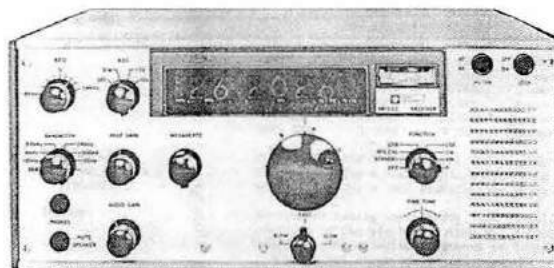
Specifications:

Coverage 15 - 30100 kHz
Selectivity 12/6/3.5/1.4/3/15 kHz -6dB.
Sensitivity $<.5\mu V$ 20 dB S/N CW
Image Rej >80 dB <15 MHz
IF 37.3 MHz, 100 kHz
Audio Out 4 W 15 ohms

Modes AM/LSB/USB/CW
Stability <30 Hz/hr. (after 5 hours)
IF Rejection >75 dB
Environment ... -20° to $+50^{\circ}$ C. 95% Humid
Antenna Input . 75 ohm

Comments:

The MHz is selected by a rotary knob to the left of the main tuning knob. Designed for fixed commercial use.



Made In: England

Voltages: 100-125 200-250 VAC 64W
48-420 Hz

Readout:  Digital Nixie

Physical: 16.75x7x17" 38 Lbs.
425x178x431mm 17.3 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



PRS-2282



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Indicator
- BFO
- AGC SHT/MED/LNG/OFF
- RF Gain
- Mute
- Speaker
- Local/Remote
- Keypad
- 100 Memories
- Scanning
- Modular Construction
- Rack Handles
- B.I.T.E.
- Fast/Slow Tuning

Specifications:

Coverage 10 - 30000 kHz Modes AM/LSB/USB/CW
Stability <30 Hz/hr. (after 5 hours)

Accessories:

ISB Option

Comments:

The PRS-2280 series replaces the PRS-2250.

Variants:

Model **RS-2281** is a remote controlled version. Model **PRS-2283** is a slave receiver.

Made In: England 1987

Voltages: ?

Readout: **00000.001** Digital

Physical:

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

50 Quality U.S. Technologies

The initial production of this receiver was exclusively marketed and sold on the conservative shortwave program *For the People*, on WWCR hosted by Chuck Harder. The main marketing attribute of this receiver was that it was American made. According to the manufacturer, 75% of the parts (by dollar value) were of American origin. Over 1,000 units of the American Electrola DX-100 were sold in this manner.

The manufacturer then elected to offer this model through traditional radio dealers, under the **Quality U.S.** label. Sales did not reach the expected levels. Lacking single sideband capability and suffering from excessive microprocessor noise, the 8A never found a strong following among mainstream listeners or DX'ers.

The announced computer interface was never developed. The company apparently folded sometime in 1994.

Quality U.S. Technologies, Inc.
206 Center Ave.
Pittsburgh, PA 15202 1992-1994

Quality U.S. Technologies, Inc.
8033 Bennett St.
Pittsburgh, PA 15221 1992-1994



8A World Access

General Coverage Broadcast Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/8" Head. Jack
- Clock-Timer
- Line Out
- Telescopic Whip
- Speaker 4"
- 60 Memories
- Keypad
- Wood Cabinet
- 12 Event Timer
- MW Ferrite Ant.
- Record Activation
- Sleep Function
- Clock
- Sweep

Specifications:

Coverage 150 - 30000 kHz +FM Modes AM
Selectivity 7 kHz -6dB. [20 kHz FM] IF 45, .455 MHz [10.7 FM]
Sensitivity <2 μ V 20 dB SINAD Antenna Input . Terminals
Audio Out75 W <2% THD

Circuit Complement:

Single conversion on FM.

Comments:

Includes FM broadcast band 88-108 MHz. The claim was that it was made of 75% (by dollar value) American parts. An interesting effort, but the radio had shortcomings. Perhaps the most serious problem was very high microprocessor noise. The membrane keypad lacked tactile feedback. A rear-mounted DIN jack provided line out and remote recorder activation. The clock may be set for 12 or 24 hour format. Uses an outboard AC adapter.

Variants: The initial production was purchased by *For the People* and sold as **American Electrola DXC-100**. The Quality U.S. World Access model 8A (also referred to as model R-8X) was sold through radio dealers.

Made In: United States 1993-1994

Voltages: 9 VAC (Supplied with PS for 110 VAC operation).

Readout: **00001.** Digital LED

Physical: 12x7x5" 4 Lbs.
305x178x127mm 1.8 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: *Passport* 1994
Mon. Times September 1993

	New	Used
Price:	\$260-315	\$60-70
Rating:	★★	★

The **Racal Radio Company** is an established named in British communications. The name Racal was derived from the first name of the two people who designed the first receiver; Raymond and Caldwell.

Racal was the first commercial receiver manufacturer to fully embrace the famous Wadley Loop circuit that stabilizes the received frequency and eliminates drift. See the Racal RA17.

Racal Communications has several assembly plants throughout the world. Racal has a tendency to slightly rename model numbers, or add a suffix based on country of manufacture. The American made RA71 is similar to British made RA17. Likewise with the RA117 and the RA6117A. The tube line-up and other circuit differences were typically adjusted for the location where the receiver would be used. Therefore one should carefully review the **Variants** portion of each receiver entry in this chapter.

Racal continues to manufacture modems, receivers, transmitters and other advanced products for the military and commercial sector.

Racal Engineering Ltd.

Western Rd.
Bracknell, Berkshire
England 1957-1979

Racal Communications Ltd.

Western Rd.
Bracknell, Berkshire
England 1979-1980

Racal Radio Ltd.

472 Basingstoke Rd.
Reading, Berkshire
England RG2 0QF 1992-1997

Racal Communications Inc.

8440 Second Ave.
Silver Spring, MD 1965-1971

Racal Communications Inc.

5 Research Place
Rockville, MD 20850 1972-1997

RACAL

RA17

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 23 Tubes.



Features:

- 1/4" Head.Jack (2) • S & AF Meter • RF Gain • Calibrator 100 kHz.
- Rack Handles • Mute • BFO ± 8 kHz • AVC SLOW/FAST
- NL • Dial Lock • Rack Handles • Atten. -10/20/30/40dB
- Speaker 2.5" • Speaker Switch • Antenna Trimmer

Specifications:

Coverage 980 - 30000 kHz Modes AM/CW
Selectivity 8/3/1.2/.75/.3/.1 kHz-6dB Stability <150 Hz after 3 hours
Sensitivity <1 μ V CW Image Rej. >60 dB
Audio 1W Antenna Input . 75 ohms

Accessories:

RA37 LF Converter RA63 SSB Adapter RA66 Panoramic Display
RA137 LF Conv. (late)

Comments: Ranges: 1-2, 2-4, 4-8, 8-16 and 16-30 MHz. The left tuning knob is for kHz and the right tuning knob is for MHz. The kHz dial is a 6 foot 35mm film scale yielding very high accuracy (± 1 kHz). Stability improved in later production. First communications receiver to use the famous Barlow-Wadly loop drift cancelling system. Heavy duty cast aluminium chassis. Light battleship gray.

Variants: American versions **RA-17C**, **RA-17C-2** have slightly different tubes and antenna connections. **RA-17C-3** AN/URR-501, **RA-17C-12** AN/URR-501A. The model **RA153** is a larger version of the RA17 with two independent IF stages, but one VFO for direction finding. The RA153 has a separate power supply.

Made In: England 1957-1962

Voltages: 100-125/200-250 VAC
45-65 Hz 85W

Readout:  Analog Lin.

Physical: Cabinet Version:
20.5x12x21.875" 96 Lbs.
520x305x556mm 44 kg
Rack Version:
19x10.5x20.125" 67 Lbs
483x267x510mm 30.5 kg

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST March 1958
QST October 1965

	New	Used
Price:	\$1200-2400	\$400-500
Rating:	⑦	⑦

RA71

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Tubes.

Features:

• 1/4" Head. Jack • S-Meter • Notch Filter • AGC Short/Long

• Rack Handles

Specifications:

Coverage 500 - 30000 kHz Modes AM/LSB/USB/CW

Selectivity 8/2.5/.5 kHz Antenna Input . SO239

Stability ± 150 Hz

Circuit Complement:

Partial list: 6AU6 Osc, 6AU6 Harmonic Generator, 6EH7 RF Amp, 6AS6 Mixer, 6AU6 1st VFO, 6AU6 Amp, 6688 1st IF Mixer, 6AU6 IF Amp, 6688 2nd IF Mixer, 6AU6 IF Amp, 6BE6 2nd IF Mixer, 6AU6 2nd VFO, 6BA6 3rd IF Amp, EK90 BFO/Product Detector, 12AU7 Notch Filter, 6AL5 Detector/NL, 6BA6 IF Amp, 12AU7 Audio Amp, 6AL5 AVC Ret. and 6AK6 Audio Output.

Accessories:

See RA17

Comments:

The American made RA71 is a direct adaptation of the British made RA17. The left tuning knob is for kHz and the right tuning knob is for MHz. The 60 inch kHz dial is a film scale yielding very high accuracy with a calibration mark every kHz. It has been reported that this receiver was manufactured in conjunction with Westinghouse.



Made In: United States 1965-1966

Voltages: 100-125/200-250 VAC
45-65 Hz 85W

Readout:  Analog Lin.

Physical: 20.5x12x21.875" 90 Lbs.
521x305x556mm 41 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: QST October 1965

	New	Used
Price:	\$1200	\$300-420
Rating:	★★★★	⑦

RA117

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 23 Tubes.

Features:

• 1/4" Head.Jack (2) • S & AF Meter • RF Gain • Calibrator 100 kHz.

• Rack Handles • Mute Line • BFO ± 8 kHz • AVC Short/Long

• NL • Attenuator • Rack Handles • Dial Lock

• Speaker 2.5" • IF Out 100 kHz • 1 MHz I/O • Line Out 600 ohm

• RF 2-3 MHz In

Specifications:

Coverage 1000 - 30000 kHz Modes AM/CW

Selectivity 13/6.5/3/1././3/.1 kHz-6dB Stability <50 Hz after warmup

Sensitivity <1 μ V 18 dB S/N CW Intermod Rej... >100 dB

Image Rej..... >60 dB Antenna Input . 75 ohms

Audio Out 1 W 3 ohm 5% Dist. Line Outs 3 mW & 10 mW 600 ohms

Accessories:

RA237 LF Converter (10-980 kHz)

Comments:

Ranges: 1-2, 2-4, 4-8, 8-16 and 16-30 MHz. The left tuning knob is for MHz and the right tuning knob is for kHz. The kHz dial is a film scale yielding very high accuracy. Light battleship gray.

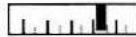
Variants:

Model RA6117A is the American version manufactured in the U.S.A.



Made In: England

Voltages: 110-125/200-250 VAC
45-65 Hz 100W

Readout:  Analog Lin.

Physical: Cabinet Version:
20.5x12x21.875" 92 Lbs.
520x305x556mm 42 kg
Rack Version:
19x10.5x21.125" 62 Lbs.
483x267x510mm 28 kg

Status: Active Manufacturer
Inactive Model

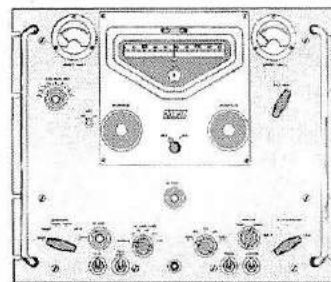
Rarity: Very Scarce

	New	Used
Price:	①	\$350-550
Rating:	★★★★	⑦

RACAL

RA153A

General Coverage Communications Receiver
Double Conversion Superheterodyne. Tubes.



Features:

- 1/4" Head.Jack
- Rack Handles
- NL
- 1 MHz I/O
- AF Meters
- Mute Line
- Attenuator
- Dial Lock
- RF Gain
- BFO ± 8 kHz
- Rack Handles
- Line Out 600 ohm
- VFO In
- AVC Short/Long
- Calibrator 100 kHz
- IF Out 100 kHz (2)

Specifications:

Coverage 1000 - 30000 kHz
Selectivity 8/3/1.2/.75/.3/.1kHz-6dB
Sensitivity <1 μ V 17 dB S/N CW
Image Rej >60 dB
Audio Out 3 and 600 ohm

Modes AM/CW/MCW
Intermod Rej... >100 dB
Antenna Inputs (2) SO-239 75 ohms
Line Out 3 mW 600 ohms
Line Out 50 mW 3 ohms

Circuit Complement:

Main chassis: (2) 6EH7 RF Amp, (2) 6688 1st VFO Buffer, (2) 6688 1st Mixer, (2) 6AK5W 40 MHz Buffer Amp, (2) 6688 37.5 MHz Buffer, (2) 6688 2nd Mixer, 6AL5W NL and 12AT7WA Audio Output.

Comments:

Ranges: 1-3, 3-4, 4-8, 4-8, 8-16 and 16-30 MHz. The RA153A is a twin channel receiver having two entirely separate signal paths. This is useful for direction finding and space or polarization diversity applications. The left tuning knob is for MHz and the right tuning knob is for kHz. The kHz dial is a film scale yielding very high accuracy. The power supply unit is separate.

Made In: England

Voltages: 110-125/200-250 VAC
45-65 Hz 160W

Readout:  Analog Lin.

Physical: Cabinet Version:
20.5x24x22.5" 180 Lbs.
520x610x570mm 82 kg
Rack (including PS):
19x26.25x21.125" 62 Lbs.
483x667x536mm 130 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

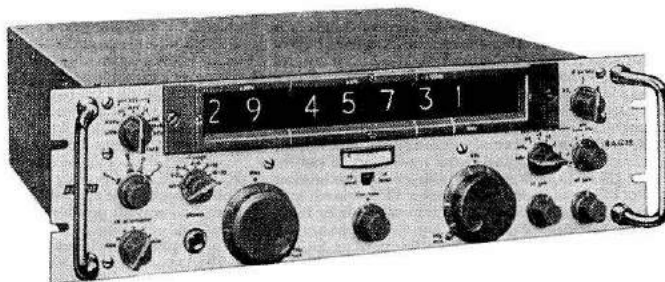
	New	Used
Price:	①	⑤
Rating:	⑥	⑥

RACAL

COMMUNICATIONS, INC.

RA1218

General Coverage Communications Receiver
Triple Conversion Superheterodyne.



Features:

- 1/4" Head.Jack
- Rack Handles
- Attenuator
- S/AF Meter
- Mute
- Rack Handles
- RF Gain
- BFO
- Dial Locks
- AGC¹

Specifications:

Coverage 500 - 30000 kHz
Selectivity 3 Position

Modes AM/CW/LSAB/USB/RTTY

Other specifications unavailable.

Comments:

The left tuning knob is for MHz and the right tuning knob is for kHz. ¹AGC positions are: Off, Manual, Short, Medium and Long.

Made In: England 1968

Voltages: ?

Readout: **00000.01** Digital Nixie

Physical: ?

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

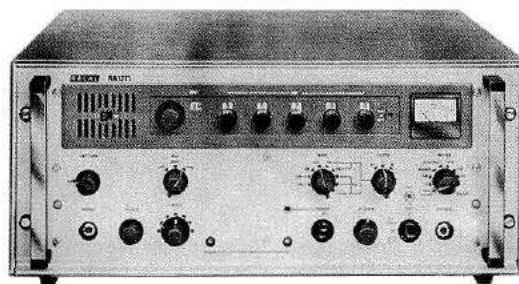
Reviews: *Radio Comm.* January 1968

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

RACAL

RA1771

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S & AF Meter
- RF Gain
- AGC (OFF/SHRT/LNG)
- Rack Handles
- Mute Line
- BFO ± 3 kHz
- Speaker Out
- 1.4 MHz IF Out
- Line Out Jack
- Speaker
- 34 MHz I/O Jack
- 1 MHz I/O Jack
- Local Osc. I/O

Specifications:

Coverage 15 - 30000 kHz
Selectivity 8/3/.3 kHz -3dB.
Sensitivity <.35 μ V .5-30 MHz SSB
Image Rej >80 dB
Audio Out 1 W 8 ohms
Modes AM/SSB/CW/MCW
Stability $\pm 1.5 \times 10^6$
IF Rejection >80 dB
Antenna Input . BNC 50-75 ohms
Environment ... -10 to 55°C 95% Humid

Accessories:

High Stability TCXO AFC Option FSK Demodulator
ISB Option 9400 Standard 9420 Standard

Comments:

A separate tuning knob is provided for MHz and then each position to 10 Hz., has its own ten position rotary knob.

Made In: England 1978-1981

Voltages: 110-125/200-250 VAC
45-65 Hz. 60-90 W

Readout:  Knobs

Physical: Rack Version:
19x7x16.14" 45 Lbs.
483x178x410mm 21 kg
Cabinet Version:
19.5x8.65x17.5" 61.5 Lbs
495x220x445mm 28 kg

Status: Active Manufacturer

Inactive Model

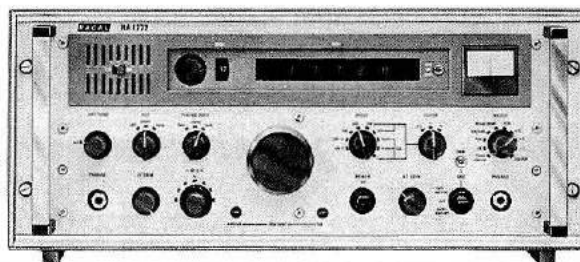
Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

RACAL

RA1772

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S & AF Meter
- RF Gain
- AGC (OFF/SHRT/LNG)
- Rack Handles
- Mute Line
- BFO ± 3 kHz
- Two Tuning Speeds
- 1.4 MHz IF Out
- Line Out Jack
- Speaker
- Dial Lock
- 34 MHz I/O Jack
- 1 MHz I/O Jack
- Local Osc. I/O
- Speaker Out

Specifications:

Coverage 15 - 30000 kHz
Selectivity 8/3/.3 kHz -6dB.
Sensitivity <.1 μ V .5-30 MHz
Image Rej >80 dB
Audio Out 1 W 8 ohms
Modes AM/SSB/CW/MCW
Stability $\pm 1.5 \times 10^6$
IF Rejection >80 dB
Antenna Input . BNC 50-75 ohms
Environment ... -10 to 55°C 95% Humid

Accessories:

High Stability TCXO AFC FSK Demodulator
ISB Option 9400 Standard 9420 Standard

Comments:

A separate tuning knob is provided for MHz which displays in a window to the left of the digital display. The main tuning knob selects the remaining digits. [¥188,000]

Variants:

Model **RA1778** features 12 memories selected by a rotary switch from the front panel. Perhaps the same knob as used for MHz selection on the RA-1772? Model **RA1779** is very similar to the RA1772, but appears to be later production [¥325,000]. Also please see models RA6772 and RA8772.

Made In: England 1978-1981

Voltages: 110-125/200-250 VAC
45-65 Hz. 60-90 W

Readout:  Digital LED

Physical: Rack Version:
19x7x16.14" 45 Lbs.
483x178x410mm 21 kg
Cabinet Version:
19.5x8.65x17.5" 61.5 Lbs
495x220x445mm 28 kg

Status: Active Manufacturer

Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	¥750-800
Rating:	⑥	⑥

RA1792

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Memory Scan
- Rack Handles
- Scanning
- S Indicator
- Keypad
- Mute
- IF Out Jack
- RF Gain
- BFO
- Speaker
- 100 Memories
- AGC
- TCXO Freq. Standard

Specifications:

Coverage 15 - 30000 kHz
Selectivity 6/3/1.2/3 kHz
Sensitivity <.35µV .5-30 MHz SSB
Stability ±1.5x10⁶

Modes AM/LSB/USB/CW
Environment ... -10 to +55°C 95% Humid
Antenna Input . BNC 50-70 ohms

Accessories:

Cabinet ISB Option FSK Option
9442 Oven Crystal MA1075 Remote Unit

Comments:

Memories are organized in ten banks or ten channels each. Memory scanning must be within a bank. Memories store frequency and mode. Adjustable dwell time on channel scanning. [¥279,00-288,000].

Made In: United States 1982-1988

Voltages: 110-125/200-250VAC 60VA
or 18-32 VDC

Readout: **00000.01** Digital LCD

Physical: 19x5.25x18" 30 Lbs.
483x133x458mm 14kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

RA3701

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Memory Scan
- Rack Handles
- Scan & Sweep
- Speaker Jack
- S/AF Indicator
- Keypad
- Mute
- Speaker Switch
- IF Out Jack
- RF Gain
- BFO ±9.99 kHz
- Speaker
- B.I.T.E.
- Master/Slave
- Modular Construction
- AGC SHT/MED/LNG
- 100 Memories
- Line Out 600 ohms
- IEEE 488/Serial Port

Specifications:

Coverage 15 - 30000 kHz
Selectivity 12/6/2.4/1/3 kHz
Sensitivity 1µV for S+N/N 16 dB
Image Rej >90 dB
Audio Out 2 W 8 ohms

Modes AM/LSB/USB/CW/MCW/FM
Stability ±1.5x10⁶
IF Rejection >90 dB
Antenna Input . BNC 50 ohms
Environment ... -10 to +55°C 95% Humid

Accessories:

ISB Module FSK Module 9420 High Stability 9442 High Stability
IF Filter Module MA3700 Rx Controller MA2232 Tune Aid

Comments:

Each memory stores: frequency, mode, bandwidth, AGC and BFO settings. The display above the right keypad alphanumerically displays: mode, bandwidth, AGC, BFO, dwell length and attenuator settings. Also used for BITE readout

Variants: Model **RA3702** is a dual receiver with front panel controls. Model **RA3703** is a remotely controlled single receiver. Model **RA3704** is a remotely controlled, dual receiver.

Made In: England 1987-1997

Voltages: 100/120/220/240 VAC
45-65 Hz. 60W

Readout: **00000.001** Digital

Physical: 19x5.25x17.7" 31 Lbs.
483x133x450mm 14 kg

Status: Active Manufacturer
Active Model

Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

RA3791

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Memory Scan
- Rack Handles
- Notch
- RS423/232 Port
- IF Out Jack
- RF Gain
- Keypad
- Mute
- DSP
- RF Gain
- 100 Memories
- PBT
- BFO ± 8 kHz
- Speaker
- Scan & Sweep
- Speaker Jack
- Squelch
- S/AF/FSK Indicator
- AGC SHT/MED/LNG
- B.I.T.E.
- Modular Construction
- Line Out 60 ohms

Specifications:

Coverage 10 - 30000 kHz
Selectivity See Comments.
Sensitivity 1 μ V for S+N/N 16 dB
Image Rej >90 dB
Audio Out 1W 8 ohms

Modes AM/LSB/USB/CW/MCW/FM
Stability $\pm 1.5 \times 10^6$
IF Rejection >90 dB
Antenna Input . 50 ohm
Environment ... -10 to +55°C 95% Humid

Accessories:

TCXO Oven TCXO High Stability Oven TCXO
ISB Option Digital IF Out MA3790 Receiver Controller

Comments: The receiver has digital filters with the following bandwidths: 12/6/3/2.7/1.3 kHz. Up to 100 different filters may be user configured from the front panel. The display above the right keypad alphanumerically displays: mode, bandwidth, AGC, BFO, dwell length and attenuator settings (and used for BITE readout). Blue.

Variants: Model **RA3792** is a dual receiver with front panel controls. Model **RA3793** is a remotely controlled single receiver. The **RA3794** is a remotely controlled, dual rcv.

Made In: England 1995-1997

Voltages: 90-132 and 175-264 VAC
47-63 Hz 50W

Readout: **00000.001** Digital

Physical: 19x5.25x17.7"
483x133x450mm

Status: Active Manufacturer
Active Model

Rarity: Very Scarce

	New	Used
Price:	\$8700	\$4000+
Rating:	⑤	⑤

RA6217

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Mute
- IF Out 455 kHz
- Cal. Fine Tune
- S/AF Meter
- Dimmer
- 1.6 MHz Out
- Spinner Knob
- RF Gain
- BFO ± 3.5 kHz
- 1.145 MHz I/O
- Dial Lamp
- Atten. -10/20/30/40 dB
- AGC SHT/MED/LNG
- Ext. VFO
- Line Out 600 ohm

Specifications:

Coverage 980 - 30000 kHz
Selectivity 13/6/3/1/.2 kHz -3dB.
Sensitivity <.5 μ V 15 dB S+N/N
Image Rej >80 dB
Audio Out 600 ohms 10 mW

Modes AM/SSB/CW/MCW/FM
Stability ± 50 Hz, ± 5 Hz after warm.
IF Rejection >80 dB
Antenna Input . BNC 50-70 ohms
Environmental 0 to +55°C

Accessories:

RA6337 LF Adapter MA350B Synthesizer RA6366 Panoramic Display
SA77T Comparator MA168 Diversity Switch RA6367 Dual Panoramic D.

Comments: RA6337 LF adapter provides 3 - 980 kHz coverage. Designed for rack mounting. Widely used by the F.B.I., F.C.C. and other government agencies.

Variants: This model sold intially as the **RA217** and **RA1217**. Model **RA6217B** tuning via manual or synthesizer. Model **RA6217D** is designed for remote control operation. Model **RA6217F** is a slave receiver. Model **RA6217G** has simplified mode and bandwidth operation. Model **RA6217Q** has a wide IF output with a 100 kHz bandwidth and no detectors or AF circuits. Model **RA6218** use an electronic digital display. Model **RA6225** is a slave receiver.

Made In: United States 1965-1976

Voltages: 110-125/200-250 VAC
48-420 Hz

Readout: **00001.** Digital

Physical: 19x3.5x17" 25 Lbs.
483x89x432mm 11.3 kg

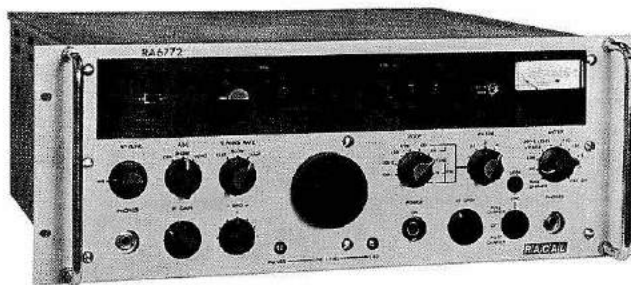
Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	\$5795-6295	\$720-900
Rating:	★★★★	★★★★

RA6772

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head Jack (2)
- S & AF Meter
- Rack Handles
- Mute Line
- Speaker Switch
- Line Out 600 ohm
- 1st IF Out
- 2nd IF Out
- IF Gain
- BFO ± 3 kHz
- 1 MHz In/Out
- RF Tune
- Two Tuning Rates
- TCXO Freq. Standard
- AGC OFF/SHT/LNG
- Speaker
- Dial Lock

Specifications:

Coverage 15 - 30000 kHz
Selectivity 13/8/3/1/3/ kHz
Sensitivity $< .35\mu V$.5-30 MHz SSB
Image Rej > 80 dB
Audio Out 1 W 8 ohms
Modes AM/LSB/USB/CW
Stability $\pm 1.5 \times 10^5$
IF Rejection > 80 dB
Antenna Input . BNC 50-70 ohms

Accessories:

9400 Freq. Standard 9420 Freq. Standard FSK Board

Comments: The RF Tune knob is required only when the receiver is operated in close proximity to strong interfering signals. It is switched out of the circuit when set to WB (wideband). Tuning drag may be adjusted. The small MHz dial is just to the left of the frequency display.

Variants: Model RA6772A-1 with ISB installed, RA6772A-2 with FSK Demod installed, RA6772A-3 with ISB & FSK, RA6772A-4 with AFC option installed, RA6772-5 with ISB & AFC, RA6772A-6 with AFC & FSK installed, RA6772A-7 with AFC, ISB and FSK options installed. A model RA6772-P is the parent receiver to drive two model RA-6230 slave receivers for direction finding.

Made In: United States 1975-1979

Voltages: 110-125/200-250 VAC
45-420 Hz 60-90W

Readout: 00000.01 Digital LED

Physical: 19x7x16.3" 45 Lbs.
483x178x410mm 20.4 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: Ham Radio October 1978

	New	Used
Price:	\$5995	\$700-870
Rating:	★★★★	★★★★

RA6772E (R-2130/GRR)

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head Jack
- S & AF Meter
- IF Gain
- Line Out 600 ohm
- Rack Handles
- Mute
- BFO ± 8 kHz
- Two Tuning Rates
- 5 MHz Ref In
- IF Out 455 kHz
- Rack Handles
- AGC OFF/SHT/MED/LNG

Specifications:

Coverage 1000 - 30000 kHz
Selectivity 16/8/3.2/1/3 kHz -3dB
Sensitivity $< .5\mu V$ 10 dB S+N/N
Image Rej > 80 dB
BFO Range ... ± 8 kHz
BFO Resol. ... 10 Hz
3rd Order Int... ≥ 35 dBm
Modes AM/LSB/USB/CW/FM
Stability $\pm 1 \times 10^6$
IF Rejection > 80 dB
Dyn. Range > 120 dB
Environment ... 0 to 50°C 95% Humid.
Antenna Input . BNC 50-70 ohms

Accessories:

RS232C/MIL188 Port ISB Option MA6003 Remote Unit
High Stability

Comments:

The highly shielded RA6772E is Tempest qualified. BFO has separate 3 digit LED display. Is computer controllable via the optional MA6003 Remote unit. The RA6772E is more similar to the RA6778 than it is the RA6772.

Made In: United States

Voltages: 120/240 VAC 48-420 Hz.
75W

Readout: 00000.01 Digital LED

Physical: 19x8.75x19.9" 45 Lbs.
483x222x506mm 20.3 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	\$5500	\$490-850
Rating:	★★★★	★★★★

RA6778A

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Rack Handles
- Line Out
- 5 MHz Ref Jack
- S & AF Meter
- Mute
- 50 Memories¹
- IF Gain
- BFO ± 8 kHz
- Speaker
- Two Tuning Rates
- 1.4 MHz IF Out
- Speaker Switch

Specifications:

Coverage 15 - 30000 kHz
Selectivity 16/8/3.2/1.3 kHz -3dB.
Sensitivity <.5 μ V 10 dB S+N/N
Image Rej >80 dB
BFO Range ... ± 8 kHz
Environment .. 0° to 50°C 95% Humid.
Modes AM/LSB/USB/CW/FM
Stability $\pm 1 \times 10^6$
IF Rejection >80 dB
Dyn. Range >120 dB
BFO Resol. 10 Hz
Antenna Input . BNC 50-70 ohms

Accessories:

ISB Option Filters Preamp Computer Control Option

Comments: May be tuned in 10 or 100 Hz increments. ¹Some units have no memories, some 32 memories and some have 50 memories. The memories store: frequency, mode, bandwidth, AGC and BFO settings. The RA6778 (unlike the RA6790!) is Tempest qualified (extremely low emissions from the receiver). It is one of the most heavily shielded receivers ever produced.

Variants: Model **RA6778B** has one less RF amplifier. Model **RA6778C**, later production, differences unknown. Caution: Model **RA6778Q** is a considerably different receiver designed primarily for remote operation (1980).

Made In: United States 1977-1982

Voltages: 120/240 VAC 48-420 Hz.
75W

Readout: **00000.01** Digital LED

Physical: 19x8.75x19.9" 45 Lbs.
483x222x506mm 20.3 kg

Status: Active Manufacturer
Inactive Model

Rarity: Very Scarce

	New	Used
Price:	\$7000	\$1400-1900
Rating:	®	®

RA6790/GM (R-2174(P)/URR)

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Rack Handles
- Line Out Jack (2)
- BFO ± 8 kHz
- S & AF Meter
- Mute
- Ext. Spkr Jack
- B.I.T.E.
- Keypad
- AGC (3 Pos)
- I.F. Out Jack
- RF Gain
- 3 Tuning Rates
- Lock

Specifications:

Coverage 500 - 30000 kHz
Selectivity 20/6/3.2/1.3 kHz -3dB.
Sensitivity <.5 μ V .5-30 MHz SSB
Image Rej >80 dB
BFO Range ... ± 8 kHz
Audio Out 1 W 8 ohms
Dyn. Range ... RF >180 dB/Hz
Modes AM/LSB/USB/CW/FM
Stability $\pm 5 \times 10^6$ per 10°C.
IF Rejection >80 dB
Antenna Input . N
BFO Resol. 10 Hz.
Line Outs 1 mW 600 ohms
Environmental . 0° to 50°C 95% Humid.

Accessories:

Preselector ISB 2 Channel VLF Extension (1 - 500 kHz)
I.F. Converter ISB 4 Channel LF Extension (10 - 500 kHz)
Ext. Ref. Jack Very NBFM High Stability Option
Remote Control via ASCII, MIL-STD-188C, RS-232C, RS-422, RS-423 or IEEE 488.
MA6004 Command Control Unit.

Comments: Often sold on the surplus market without any I.F. filters. [¥150,000].

Variants: Model **R-2174P** is a military version. Earlier model **RA6790** similar, but without LED on the front panel for Fault.

Mfg. In: United States 1979-1988

Voltages: 110/120/200/240 VAC
48-420 Hz 40 W

Readout: **00000.001** Digital LCD.

Physical: 19x5.25x18.5" 32 Lbs.
483x133x470mm 14.5 kg

Status: Active Manufacturer
Inactive Model

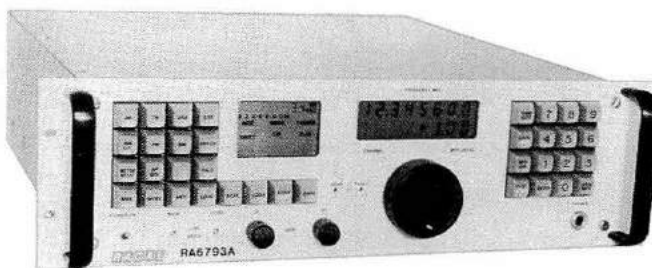
Rarity: Common

Reviews: WRTH 1982

	New	Used
Price:	\$5000-6000	\$780-1600
Rating:	★★★★★	★★★★★

RA6793A

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S & AF Meter
- Keypad
- RF Gain
- Rack Handles
- Mute
- AGC (3 Pos.)
- 3 Tuning Rates
- Line Out Jack (2)
- Ext. Spkr Jack
- I.F. Out Jack
- Lock
- B.I.T.E.
- BFO ± 8 kHz
- 100 Memories
- Memory Scan
- Sweep

Specifications:

Coverage 500 - 30000 kHz
Selectivity 20/6/3.2/1/1.3 kHz -3dB.
Sensitivity $< .5\mu V$.5-30 MHz SSB
Image Rej > 80 dB
Audio Out 1 W 8 ohms
Dyn. Range ... RF > 180 dB/Hz
3rd Ord. Int. ... $+30$ dBm

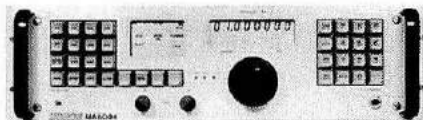
Modes AM/LSB/USB/CW/FM
Stability $\pm .5 \times 10^6$ per $10^\circ C$.
IF Rejection > 80 dB
Antenna Input . 50 ohms N
Line Outs 1 mW 600 ohms
Environmental 0° to $50^\circ C$ 95% Humid.

Accessories:

ISB 2 Channel
ISB 4 Channel
VLF Extension (1 - 500 kHz)
LF Extension (10 - 500 kHz)
High Stability Option
MA6004 Command Control Unit (shown below)

Comments: Uses Hall-effect keypad (not membrane like RA6790).

Variants: British designation is RA1792. The R-2320 is a militarized version of the RA6793A with 2nd head. jack and C.O.R.



Mfg. In: United States

Voltages: 115/230 VAC
48-420 Hz 40 W

Readout: **00000.001** Digital LCD.

Physical: 19x5.25x18.5" 32 Lbs.
483x133x470mm 14.5 kg

Status: Active Manufacturer
Active Model

Rarity: Scarce

Reviews: WRTH 1982

	New	Used
Price:	①	\$2200+
Rating:	★★★★★	★★★★★

RA6830

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S Indicator
- Keypad
- Modular
- Rack Handles
- Mute
- BFO ± 8 kHz
- 2 Tuning Rates
- Speaker Jack
- B.I.T.E.
- IF Out 455 kHz
- AGC SHT/MED/LNG
- IF Gain
- Tuning Lock
- Ref. Input Jack
- Line Out 600 ohm (2)
- Spinner Knobs

Specifications:

Coverage 100 - 30000 kHz
Selectivity 20/6/3.2/1/1.3 kHz -3dB.
Sensitivity $< .5\mu V$ 10 dB S+N/N
Image Rej > 80 dB
BFO Range ... ± 8 kHz
Audio Out 1 W 8 ohms
Line Out (2) ... 600 ohms 1 mW

Modes AM/LSB/USB/CW/FM
Stability $\pm 5 \times 10^6$ per $10^\circ C$.
IF Rejection > 80 dB
Dyn. Range ... RF > 180 dB/Hz
BFO Resol. 10 Hz
Antenna Input . BNC 50-70 ohms
Environment ... 0 to $50^\circ C$ 95% Humid.

Accessories:

High Stability
ISB Option
RS232C/MIL188C
Muting

Comments:

The RA6830 tunes in 100, 30 or 1 Hz increments. This "half rack" size permits two receivers to be mounted side-by-side in a 19" rack. Also has been produced with a single horizontal rack handle.

Made In: United States 1986-1997

Voltages: 115/230 VAC 48-420 Hz.
40W

Readout: **00000.001** Digital LED

Physical: 9.5x5.25x22" 32 Lbs.
244x133x560mm 14.5 kg

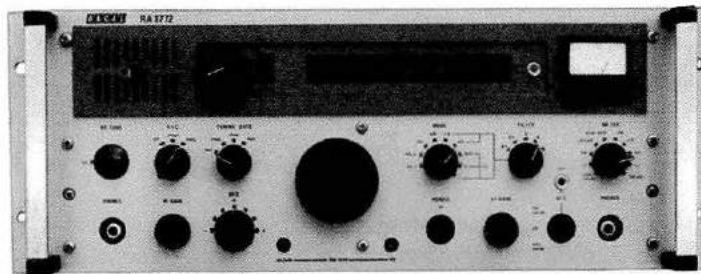
Status: Active Manufacturer
Active Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑤	⑥

RA8772CB

General Coverage Communications Receiver
Double? Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Rack Handles
- 34 MHz I/O
- IF Gain
- Speaker
- S/AF Indicator
- Mute
- 1 MHz I/O
- Tuning Lock
- Speaker Switch
- AFC
- BFO
- IF Out Jack
- Ref. Input Jack
- RF Tune
- Modular
- 3 Tuning Rates
- AGC OFF/SHT/LNG
- Line Out
- Dial Lock

Specifications:

Coverage 15 - 30000 kHz
 Selectivity 8/3/.3/.1/_ kHz -3dB.
 Image Rej >80 dB
 Audio Out 1 W 8 ohms
 Line Out (2) ... 600 ohms 1 mW

Modes AM/LSB/USB/CW/ISB
 IF Rejection >80 dB
 Environment ... -10 to 55°C 95% Humid
 Antenna Input . BNC 50-70 ohms

Comments:

The MHz position is selected by a rotary knob to the left of the digital display. The MHz position shows through a very small window to the right of this knob. The remaining six digits are tuned from the large center knob and displayed on the red LEDs. This rare model was made in Canada. It is similar to model RA1772, but with one more tuning speed and two more filter positions.

Made In: Canada 1979-1980

Voltages: 100/105/110/115/120/200
210/220/230/240/250 VAC

Readout: **00000.001** Digital LED

Physical: 19x7x16.14" 45 Lbs.
483x178x410mm 21 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

52 Radio Corporation of America

Prior to World War II, R.C.A. was an active manufacturer of radios for the hobby market. The AR77 was a very popular communications receiver, regularly advertised in *QST*.

Perhaps R.C.A.'s most famous receiver is the model AR88. Most AR88 production was sent to England and Russia during World War II as part of the Lend Lease Act. As a result, the AR88 was the staple of British DXer's in the 1950's and 1960's. Many were sold new-in-the-box to the English hobbyist market. In fact the AR88 is far more common in the United Kingdom than it is in America.

After World War II, R.C.A. focused more on television, components and other areas. They produced a few receivers for the RCA Radio Marine division, but many were relabeled radios made by other manufacturers such as Drake.

Radio Corporation of America
RCA Manufacturing Co. Inc.
 Camden, NJ



AR88

General Coverage Communications Receiver
 Single Conversion Superheterodyne. 14 Tubes



Features:

- 1/4" Head Jack
- S-Meter
- Tone Control
- Antenna Trimmer
- BFO
- NL Variable
- Standby
- AVC/MVC
- Mute Line
- Flywheel Tuning
- Line Out 600 Ohms

Specifications:

Coverage535 - 32000 kHz Modes AM/CW
 Selectivity 13.5/7/2.5/1/.5 kHz -6dB. IF 455 kHz
 Sensitivity <2.2µV 6dB S/N Antenna Input . Terminals
 Audio Out 2.5 W 2.5 ohms

Circuit Complement:

(5) 6SG7 RF Amp/IF Amp, (2) 6J5 Oscillator/BFO, 6SA7 Mixer, (2) 6H6 Detector/NL, 6SJ7 AF Amp, 6K6GT AF Output, 5Y3GT Rectifier and VR150 Voltage Regulator.

Comments:

Ranges: .535-1.6, 1.57-4.55, 4.45-12.15, 11.9-16.6, 16.1-22.7 and 22-32 MHz. May also be run from external batteries: 250-300 volts and 6 volt. This model was produced in large numbers for the war effort. Most were sent to England and Russia however. Thus they are hard to find in the United States. A large and heavy receiver!

Variants: Model **AR88D** is the cabinet version. Model **CR88** has crystal phasing (a few with S-Meters) 1946. **CR88A** later production and S-Meter. Model **AR88LF** covers .073-.55 and 1.48-30.5 MHz with 735 kHz IF. Later models **CR91** and **CR91A** have same coverage as the AR88LF. Model **SC-88** (R-320/FRC) like CR-88 but shows only band in use. **CR88B** last version 1951.

Made In: United States 1941-1945

Voltages: 100-117/117-135/135-165/
 190-230/200-260 VAC
 50/60 Hz 100 W. Or
 batteries. See Comments.

Readout:  Analog

Physical: 19.3x11x19.3" 110 Lbs.
 490x280x490mm 50kg

Status: Active Manufacturer
 Inactive Model

Rarity: Very Scarce

Reviews: *Buyer's Guide to Amateur R.*

	New	Used
Price:	①	\$140-310
Rating:	⑥	⑦

53 Raytheon

In the 1950's and 1960's **Raytheon** was the international export agent for Hallicrafters radios.

Raytheon today is a leading defense contractor with 1995 revenues of \$11.7 billion. They produce sophisticated communications and electronic equipment for government, military and commercial markets.

Raytheon did produce the model 1230 H.F. communications receiver which was advertised heavily in *QST* in the early 1970's. It is doubtful many reached the hobbyist market because of the high price. The author would enjoy hearing from anyone who is lucky enough to possess a Raytheon 1230.

Raytheon Company

6380 Hollister Ave.
Goleta, CA 93017

1972-1974



1230



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head Jack
- S/AF-Meter
- Rack Handles
- Main & Fine Knobs
- AGC FST/SLO
- RF Gain
- Dial Locks
- Dual Tuning Rates
- Mute
- Tilt Bar
- 1 MHz Output
- AFSK Output Jack

Specifications:

Coverage 2000 - 30000 kHz.
Selectivity 16/6/3.2/5 kHz -6dB.
Sensitivity 6 µV SSB
Audio Out 2W
IF Rejection ... >80 dB

Modes AM/SSB/CW/FSK/FM
Dial Accuracy . 1.0 Hz.
Stability ±1 Hz per day
Image Reject .. 50 dB @30 MHz

Accessories:

ISB Option FSK Adapter Rack Mount

Comments:

Rear panel jacks for AF outputs, 1 MHz clock output, AFSK output. Designed for the commercial market. Appeared in full page ads in *QST* from 1972 through 1974.

Variants:

Model **1230A**. Differences unknown.

Mfg. In: United States 1972-1975

Voltages: 110/220 AC 50-400 Hz

Readout: **00000.001** Digital LED

Physical: 3.5x17x18.75" 28 Lbs.
88x432x476mm 12.7 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Extremely Scarce

	New	Used
Price:	\$3930-4475	⑤
Rating:	⑥	⑥

54 Realistic (Radio Shack)

Radio Shack was established in 1921 on Brattle Street in Boston. By the late 1940's it had become a leading distributor of electronic parts to hobbyists and industry. In 1947 it branched into the new area of hi-fi. In 1954 it began marketing under the **Realistic** private label. Radio Shack began importing from Japan in the late 50's and opened an engineering office in Tokyo in 1961. By the end of 1962 there were nine stores located in the North East, but the Company was in debt and losing money. In 1963 Radio Shack was purchased by Tandy Corporation. Under the guidance of Charles Tandy, Radio Shack would expand into the largest chain of electronics stores in history. For a detailed account of this amazing story read, *Tandy's Money Machine - How Charles Tandy Built Radio Shack Into the World's Largest Electronics Chain* by Irvin Farman.

Although Realistic receiver's have never been the darlings of the radio press, or advanced DXer's, the Company's ubiquitous distribution has served to provide shortwave radios to virtually every corner of the country. Reported problems with the DX-300 and DX-302 were not necessarily of poor design. In many cases the factory did not take the necessary time to properly align these sets. Owners who have these sets realigned often report dramatic performance improvement. The Realistic AX-190 and SX-190 are listed in the Allied chapter of this book. Realistic is a trademark of Tandy Corporation.

Radio Shack

167 Washington St.
Boston 8, Mass 1958

Radio Shack

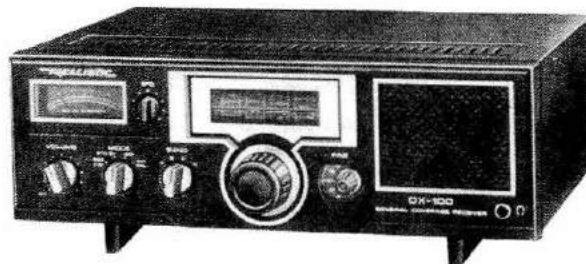
730 Commonwealth Av.
Boston, MA 02215 1965-1971

Radio Shack Div. of Tandy Copr.

One Tandy Center
Ft. Worth, TX 76102 1972-1997

REALISTIC

DX-100



General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack • S-Meter • Speaker • ANL
- BFO • Fine Tuning • Standby • Dial Lamp

Specifications:

Coverage 520 - 30000 kHz Modes AM/SSB-CW
Antenna Input Terminals

Comments:

Main tuning bands: 55-1.62, 1.55-4.5, 4.5-13 and 13-30 MHz. Ceramic IF filter.
Radio Shack #20-206.

Made In: Japan 1982-1984

Voltages: 117 VAC

Readout:  Analog

Physical: 12x5.75x8"
305x146x203mm

Status: Active Manufacturer
Discontinued Model

Rarity: Common

	New	Used
Price:	\$100	\$30-35
Rating:	★★★	★

REALISTIC

DX-120 Star Patrol

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Fine Tuning
- Speaker 3x5"
- ANL
- AVC (2 Pos.)
- RF Gain
- Bandsread 0-100
- Dial Lamp
- Ext. Spkr. Jack
- BFO

Specifications:

Coverage535 - 30000 kHz Modes AM/SSB-CW
IF455 kHz Antenna Input . Terminals

Circuit Complement:

Utilizes an FET front-end.

Accessories:

20-1500 SP-150 Speaker 20-1501 DC Pack (8 x D)

Comments:

Radio Shack #20-120.

Made In: Japan 1970-1971

Voltages: 117 VAC or
12 VDC

Readout:  Analog

Physical: 12.5x5.25x7.75" 10 Lbs
317x133x167mm 4.5 kg

Status: Active Manufacturer
Discontinued Model

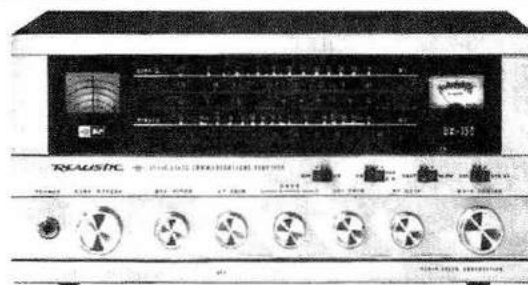
Rarity: Common

	New	Used
Price:	\$70	\$30-40
Rating:	★★★	★★

REALISTIC

DX-150

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Bandsread
- Speaker
- ANL
- AVC FST/SLO
- RF Gain
- Antenna Trimmer
- Mute Line
- Ext. Spkr. Jack
- BFO
- DC Input Jack
- Dial Lamp
- Standby

Specifications:

Coverage535 - 30000 kHz Modes AM/SSB-CW
Selectivity4.5 kHz -6dB IF455 kHz
Sensitivity5 µV @ 30 MHz Antenna Input . Terminals

Circuit Complement:

30 Semiconductors.

Accessories:

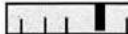
20-1500 SP-150 Speaker 20-1501 DC Pack (8 x D)

Comments:

Ranges: .535-1.6, 1.55-4.5, 4.5-13 and 13-30 MHz. Bandsread bands: 3.3-4.1, 4.85-5.1, 5.75-6.25, 6.6-7.4, 8.4-10, 9.5-12.5, 13.7-14.4, 14.7-15.5, 16.8-18.1, 19.8-22 and 25.5-30 MHz. Radio Shack #20-150

Made In: Japan 1967-1969

Voltages: 120 VAC 50/60Hz 10W
or 12 VDC

Readout:  Analog

Physical: 14.2x6.5x9.25" 14 Lbs
360x165x235mm 6.4 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: *Pop. Elec.* Dec. 1967
QST March 1968

	New	Used
Price:	\$120	\$45-55
Rating:	★★	★

REALISTIC

DX-150A

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Bandsread
- Speaker
- ANL
- AVC FST/SLO
- RF Gain
- Antenna Trimmer
- Mute Line
- Ext. Spkr. Jack
- BFO
- Dial Lamp
- DC Input Jack
- Standby

Specifications:

Coverage 535 - 30000 kHz Modes AM/SSB-CW
Selectivity 4.5 kHz -6dB.
Sensitivity 5 μ V @ 30 MHz Antenna Input . Terminals

Circuit Complement:

Has FET front-end, product detector for SSB/CW.

Accessories:

20-1500 SP-150 Speaker 20-1501 DC Pack (8 x D)

Comments:

Main tuning bands: 535-1.6, 1.55-4.5, 4.5-13 and 13-30 MHz. Bandsread bands: 3.5-4, 7-7.3, 14-14.35, 21-21.4, 28-29.5 MHz and CB channels 1-23. Similar to the DX-150, but with a FET front-end. Radio Shack #20-150.

Made In: Japan 1969-1971

Voltages: 120 VAC 50/60Hz 10W
or 12 VDC

Readout:  Analog

Physical: 14.2x6.5x9.25" 15 Lbs
360x165x235mm 6.8 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: *Pop. Elec.* August 1970
QST September 1970

	New	Used
Price:	\$120	\$55-65
Rating:	★★	★

REALISTIC

DX-150B

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Bandsread
- Speaker
- ANL
- AVC FST/SLO
- RF Gain
- Antenna Trimmer
- Mute Terminal
- Ext. Spkr. Jack
- BFO
- Standby
- Dial Lamp

Specifications:

Coverage 535 - 30000 kHz Modes AM/SSB-CW
Selectivity 4.5 kHz -6dB.
Antenna Input . Terminals

Circuit Complement:

Utilizes five FETs and has a mechanical filter.

Accessories:

20-1501 DC Pack (8 x D)

Comments:

Ranges: .535-1.6, 1.55-4.5, 4.5-13 and 13-30 MHz. Bandsread bands: 3.3-4.1, 4.85-5.1, 5.75-6.25, 6.6-7.4, 8.4-10, 9.5-12.5, 13.7-14.4, 14.7-15.5, 16.8-18.1, 19.8-22 and 25.5-30 MHz. Supplied with matching external speaker. Radio Shack #20-151.

Made In: Japan 1972-1974

Voltages: 120 VAC 50/60 Hz
or 12 VDC

Readout:  Analog

Physical: 14.2x6.5x9.25" 15 Lbs
360x165x235mm 6.8 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Abundant

Reviews: *Pop. Elec.* Nov. 1972

	New	Used
Price:	\$120-140	\$60-65
Rating:	★★	★★

REALISTIC

DX-160

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Bandspread
- External Speaker
- ANL
- AVC FST/SLO
- RF Gain
- Antenna Trimmer
- Mute Terminal
- Ext. Spkr. Jack
- BFO
- Dial Lamp
- Standby

Specifications:

Coverage 150 - 30000 kHz¹ Modes AM/SSB-CW
Selectivity 4 kHz -6dB. Image Rej -20 to -35 dB 4.5-30 MHz
Sensitivity 3-4µV 16-30 MHz Antenna Input . Terminals
Audio 7W 8 ohms

Circuit Complement:

1 Integrated circuit, 5 FETs, 6 transistors and 15 diodes.

Accessories:


20-1501 DC Pack (8 x D)

Comments:

Ranges: .15-.4, .535-1.6, 1.55-4.5, 4.5-13 and 13-30 MHz. ¹Coverage gap from .4-.535 MHz. Bandspread bands: 3.5-4, 7-7.3, 14-14.35, 21-21.4 and 28-29.7 MHz plus CB channels 1-23. Supplied with matching external speaker. Radio Shack #20-152. The European version operates from 220-240 VAC.

Made In: Japan 1975-1980

Voltages: 120 VAC 50/60 Hz 6W
or 12 VDC 30-180 ma

Readout:  Analog

Physical: 14.5x6.5x9.25" 15 Lbs
368x165x235mm 6.8 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: QST September 1970
Pop. Elec. August 1970

	New	Used
Price:	\$160	\$70-75
Rating:	★★	★★

REALISTIC

DX-200

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Bandspread
- Calibrator 500 kHz
- ANL
- AGC FST/SLO
- RF Gain
- Antenna Trimmer
- Mute Terminal
- Ext. Spkr. Jack
- Dial Lamp

Specifications:

Coverage 150 - 30000 kHz¹ Modes AM/SSB-CW
Selectivity 4 kHz -6dB. Image Ratio 30 dB @ 7 MHz
Sensitivity 1µV (.25-21MHz). Image Ratio 15 dB @ 21 MHz
S/N Ratio 45 dB @ 7MHz Antenna Input . Terminals
Audio Out 1.5 W 10% distortion IF Freq 455 kHz
BFO Range ... ±3 kHz. Hum & Noise .. 3 mV at speaker

Circuit Complement:

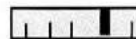
4 Integrated circuit, 5 FETs, 8 transistors, 16 diodes and 5 LEDs.

Comments:

Ranges: .15-.4, .52-4.5, 4.5-13 and 13-30 MHz. ¹ Coverage gap from .4-.52 MHz. Bandspread bands: 3.3-4.1, 4.85-5.1, 5.75-6.25, 6.6-7.4, 8.4-10, 9.5-12.5, 13.7-14.4, 14.7-15.5, 16.8-18.1, 19.8-22 and 25.5-30 MHz. Radio Shack #20-205. The European/Australian version operates from 220/240 VAC 50 Hz.

Made In: Japan 1982-1983

Voltages: 120 VAC 50/60 Hz
12 VDC

Readout:  Analog

Physical: 14.5x6.5x9.25" 15 Lbs
368x165x235mm 6.8 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: 73 April 1981

	New	Used
Price:	\$230	\$80-90
Rating:	★★	★★

REALISTIC

DX-300

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- ANL
- Mute Terminal
- Record Jack
- S-Meter
- RF Gain
- Ext. Spkr. Jack
- Key Input Jack
- Preselector
- Dial Lamp
- Speaker
- Light Switch
- Fine Tuning
- Atten. -20/40 dB
- Standby
- Audio Filt. 3 Pos.

Specifications:

Coverage 10 - 30000 kHz
Selectivity 6 kHz -6dB.
Sensitivity 3 μ V (.9-28.1MHz).
Stability 1 kHz per hour
Audio Out 1.5W 8 ohm 10% dist.
BFO Range ... \pm 3 kHz.

Modes AM/LSB/USB-CW
Image Ratio 70 dB @ 3.1-28.1 MHz
Image Ratio 80 dB @ .1-3.1 MHz
IF 54.5-55.5, 3-2 MHz, 455 kHz
Environment ... 0 to +43°C.
Antenna Input . SO-239 & Terminals

Circuit Complement:

4 Integrated circuits, 10 FETs, 27 transistors, 35 diodes and 1 thermistor.

Comments:

Can hold eight "C" cells for portable operation. This model lacked adequate stability and image rejection. Note that the switch for Wide/Normal/Narrow is merely an audio filter circuit and not an IF filter selection. Radio Shack #20-204. European version is 220/240 VAC 50 Hz.

Made In: Japan 1979-1980

Voltages: 120 VAC 50/60 Hz or
12 VDC or 8 C cells.

Readout: **00001.** Digital LED

Physical: 14.2x6.5x9.25" 13.5 Lbs
362x165x235mm 6 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Abundant

Reviews: *WRTH* 1980
Pop. Elect. November 1979
73 September 1980
Comm. World 1980

	New	Used
Price:	\$380	\$120-140
Rating:	★★	★

REALISTIC

DX-302

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- ANL
- Mute Terminal
- Record Jack
- S-Meter
- RF Gain
- Ext. Spkr. Jack
- Standby
- Preselector
- Dial Lamp
- Speaker
- Light Switch
- Fine Tuning
- Atten. -20/40 dB
- Key Input Jack

Specifications:

Coverage 10 - 30000 kHz
Selectivity 7/5 kHz -6dB.
Sensitivity 3 μ V 3.1-28.1MHz.
Stability 1 kHz per hour
Audio Out 1.5W 8 ohm 10% dist.
BFO Range ... \pm 1 kHz.

Modes AM/LSB/USB-CW
Image Ratio 60 dB @ 3.1-28.1 MHz
Image Ratio 70 dB @ .1-3.1 MHz
IF 54.5-55.5, 3-2 MHz, 455 kHz
Environment ... 0 to +43°C.
Antenna Input . SO-239 & Terminals

Circuit Complement:

4 Integrated circuits, 39 transistors and 35 diodes.

Comments:

Can hold eight "C" cells for portable operation. This model lacked adequate stability and image rejection. Note that, unlike the DX-300, the switch for Wide/Narrow on the DX-302 is for IF filter selection. Radio Shack #20-220. European version is 220/240 VAC 50 Hz.

Made In: Japan 1980-1982

Voltages: 120 VAC 50/60 Hz or
12 VDC or 8 C cells.

Readout: **00001.** Digital LED

Physical: 14.2x6.5x9.25" 13.5 Lbs
362x165x235mm 6 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Abundant

Reviews: *QST* August 1981
QST September 1981
73 November 1980

	New	Used
Price:	\$400	\$150-170
Rating:	★★★	★★

DX-394

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- Mini Head. Jack
- NB
- Speaker 3"
- Record Jack
- Lock
- S-Meter
- Keypad
- Speaker Jack
- Atten. -20 dB
- Sleep 30/60 min
- 160 Memories
- RF Gain
- Scan
- Standby
- VRIT Tuning
- Fine Tuning (10 Hz)
- Timer (5 Event)
- Sweep
- Clock Dual Time
- Telescopic Antenna

Specifications:

Coverage 150 - 30000 kHz	Modes AM/LSB/USB/CW
Selectivity 7.2/6/5.7 kHz	Image Reject .. >80 dB
Sensitivity 1µV CW	IF Reject >80 dB
IF 45 MHz, 455 kHz	Antenna Input . SO-239 & RCA
Audio Out 0.8W 10% THD	

Comments:

Tuning step rate: .1, 1, 5, and 10 (9) kHz. The LCD is backlit. The bandwidths are mode-dependent. 7 kHz is for AM and 5.7 or 6 kHz is for SSB. The AC supply is built-in. The DX-394 makes a nice bed-side radio. Radio Shack #20-224.

Made In: Japan 1995-1997

Voltages: 120 VAC 60 Hz 13W
or 13.8 VDC 8W

Readout: **00000.1** Digital LCD

Physical: 9.125x3.5x7.785" 4.6 Lbs
232x89x198mm 2 kg

Status: Active Manufacturer
Active Model

Rarity: Common

Reviews: *Passport* 1997
WRTH 1996
Mon. Times June 1996
NASWA January 1996

	New	Used
Price:	\$300-400	\$160-175
Rating:	★★★	★★★

55 Redifon Ltd.

The **Redifon Company** has been a leader in British communications equipment for decades.

Several years ago, the Redifon Company was acquired by the French electronics giant Thomson-CSF. Equipment continues to be manufactured under Redifon name.

The author would like to hear from any reader who has information on the R1000 series.

Redifon Ltd.

Broomhill Rd.
London S.W.18
England

1960-1980

Rediffusion Radio Systems Ltd.

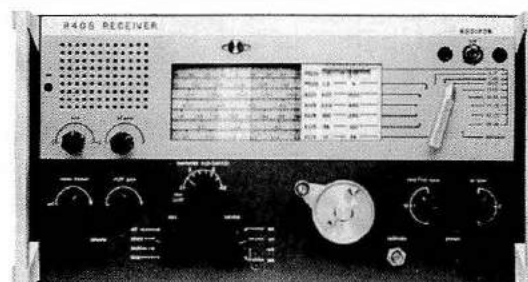
Newton Rd.
Crawley,
West Sussex RH10 2PY
England

1985-1997

Redifon

R408

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- IF Out Jack
- Rack Handles
- BFO ± 3 kHz
- ANL (Variable)
- Fine Tuning
- AGC Out Jack
- Fiduciary Adjust
- Speaker
- Antenna Trimmer
- Semi-Modular
- Dial Lamp
- Ext. Speaker Jack
- 500 kHz Preset
- Calibrator 100 kHz
- AGC OFF/SHT/MED/LNG
- Line Out 600 ohm

Specifications:

Coverage 13 - 28000 kHz
Selectivity 8/3/1 kHz -6dB.
Sensitivity <1 μ V above 650 kHz
Image Rej >70 dB 3-28 MHz
Audio Out 1.5 W 3 ohms
BFO Range ... ± 3 kHz.

Modes AM/CW/LSB/USB
Stability ± 40 Hz after warm-up
IF Rejection >90 dB 3-28 MHz
IF See Comments
Environment ... -15° to +55° C. 95% Humid
Ant. Jack 75 ohm

Comments:

Ranges: .013-.036, .036-.1, .1-.25, .25-.65, .65-1.6, 1.5-4, 4-7, 7-10, 10-13, 13-16, 16-19, 1-22, 22-25 and 25-28 MHz. Single conversion below 650 kHz. A 90 inch film tuning scale, in conjunction with the 100 kHz crystal calibrator, provides very accurate frequency readout. A 24 VDC version of this receiver was also produced. The first IF is 470, 1500 or 4500 kHz depending on frequency. The second IF is 80 kHz. Selectivity is continuously variable form 800 Hz to 8 kHz for AM and 800 Hz to 4 kHz for SSB. This receiver is designed for the marine market.

Made In: England

Voltages: 110/125 or 200/250 VAC
50/60 Hz 17W

Readout:  Analog

Physical: 17.5x8.75x19.75" 55 Lbs.
445x223x502mm 25 kg

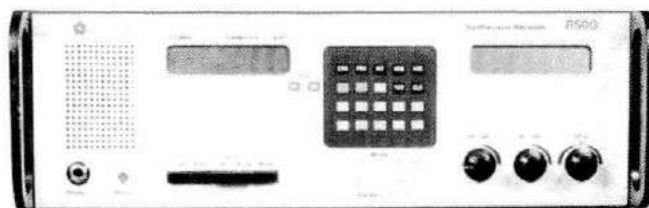
Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑤	⑥

R500

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Speaker
- BFO
- AGC ON/SLO
- RF Gain
- 63 Memories
- Rack Handles
- Modular Construction
- Mute
- Standby
- Keypad
- Fine Tuning
- Up/Down Tuning

Specifications:

Coverage 10 - 30000 kHz
Selectivity 6/3/1/3 kHz -6dB.
Sensitivity <1μV 10 dB S/N
IF Rej. 100 dB (2-20 MHz)
Modes AM/CW/LSB/USB/MCW
Stability 5×10^{-8} from -10 to +55° C
Image Rej. 80 dB (2-20 MHz)
Environment ... -10° to +45° C. 95% Humid

Accessories:

FSK Option Remote Operation Option 24 VDC Option

Comments:

This receiver performs with reduced specifications from 10 to 60 and 1000 to 1600 kHz. Tuning is via keypad or memories. Fine tuning (10 Hz) via Up and Down keys is also supported. The receiver mutes during tuning. The left LCD indicates channel and frequencies. The right LCD indicates: mode, bandwidth, mute status, AGC and other control parameters. RF tuning is accomplished by the microprocessor and a motor drive system.

Variants:

Model R500N supplied to New Zealand Navy.

Made In: England 1981-1997

Voltages: 100/105/110/115/120/125 or
200/210/220/230/240/250VAC
47-63 Hz 60W

Readout: **00000.01** Digital LCD

Physical: 19x5.25x17.5" 41.4 Lbs.
483x133x445mm 18.8 kg

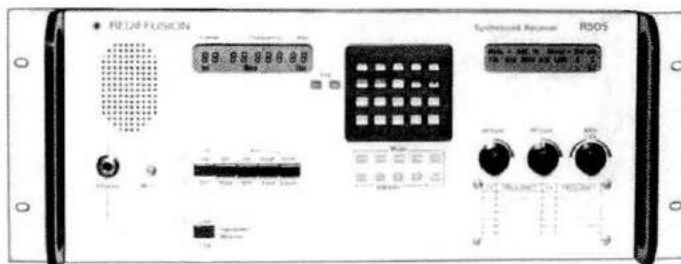
Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

R505

General Coverage Communications Receiver
Single Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Speaker
- BFO
- AGC ON/SLO
- RF Gain
- 63 Memories
- Rack Handles
- Modular Construction
- Mute
- Standby
- Keypad
- LSB/USB Mon. Switch
- Fine Tuning

Specifications:

Coverage 60 - 30000 kHz
Selectivity 6/3/1/3 kHz -6dB.
Sensitivity <1μV 10 dB S/N
Modes AM/CW/LSB/USB/MCW/ISB
Stability 5×10^{-8} from -10 to +55° C
Environment ... -10° to +45° C. 95% Humid

Accessories:

FSK Option Remote Operation Option

Comments:

This receiver performs with reduced specifications from 1000 to 1600 kHz. Tuning is via keypad or memories. Fine tuning (10 Hz) via Up and Down keys is also supported. The receiver mutes during tuning. The left LCD indicates channel and frequencies. The right LCD indicates: mode, bandwidth, mute status, AGC and other control parameters. RF tuning is accomplished by the microprocessor and a motor drive system. Similar to the R500, but with ISB capability. The headphone jack can be selected to monitor either ISB channel.

Made In: England 1986-1997

Voltages: 100/105/110/115/120/125 or
200/210/220/230/240/250VAC
47-63 Hz 60W

Readout: **00000.01** Digital LCD

Physical: 19x7x17.5" 50 Lbs.
483x177x445mm 22.7 kg

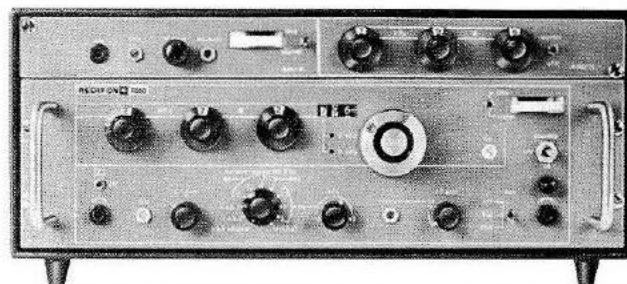
Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

R550 Altair

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack (2) • S/AF Meter
- RF Gain
- Mute
- IF Out 1.4 MHz
- BFO ± 3 kHz
- Rack Handles
- Sidetone
- Ext Speaker Jack
- AGC OFF/FST/SLO
- Modular Construction
- Line Out 600 ohm
- Speaker Jack

Specifications:

Coverage 200 - 30000 kHz
Selectivity 12/6/3/1/1.2 kHz -6dB.
Sensitivity $<1\mu V$ above 1 MHz
Image Rej >80 dB
Audio Out 1.5 W 3 ohms
BFO Range ... ± 3 kHz.

Modes AM/CW/LSB/USB/MCW
Stability ± 6 to ± 40 Hz after warm-up
IF 38, 1.4 MHz
Ant. Jack 50 ohm
Environment ... -15° to $+45^{\circ}$ C. 95% Humid

Accessories:

ARU.10 ISB Adapter ARU.11 Synthesizer (shown in photo)

Comments:

Reception down to 80 kHz is possible but with reduced performance. Frequency selection is via decadic knobs for the 10 MHz, 1 MHz and 100 kHz positions. Mechanical digital readout via a VFO is provided for the 10 kHz, 1 kHz and 100 Hz positions. With the optional ARU.11 Frequency synthesizer (shown above on top of the R550 receiver) the 10 kHz, 1 kHz and 100 Hz positions may be directly selected by decadic knobs or the VFO. Designed for maritime and commercial applications.

Made In: England

Voltages: 100/125 200/250 VAC
47-63 Hz 40W

Readout:  Digital

Physical: 19x5x15" 35 Lbs.
483x127x380mm 17 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	\$3000-4000	⑤
Rating:	⑤	⑤

56 R.F. Communications

Since the inception of the company in 1961, **Harris RF Communications** has been providing breakthrough communications technology to the navies of the world.

Harris is the recognized world leader in the development of revolutionary H.F. waveforms, many of which have been adopted as international military standards. Harris pioneered the serial-tone modem that makes fast, error-free data transmission over H.F. radio. The company co-developed Automatic Link Establishment (ALE) which has simplified the operation of HF radio systems.

Harris Corporation has supplied a large number of models RF-590 and R-2368 to the United States Navy and other government agencies.

RF Communications, Inc.

1680 University Ave.
Rochester 10, NY

1964-1970

Harris Corporation

RF Communications Group
1680 University Ave.
Rochester, NY 14610

1985-1997



RF COMMUNICATIONS, INC.

RF-501



Single Channel Single Sideband Receiver
Double Conversion Superheterodyne.

Features:

- 1/4" Head. Jack
- RF Gain
- Rack Handles
- Line Out 600

Specifications:

Coverage 1 Chan. 1.6 - 28 MHz.	Modes SSB
Selectivity 2.1 kHz -6dB.	Stability $\pm 3 \times 10^7$ per day.
Sensitivity $< 1 \mu V$ 10 db S/N	IF Rejection 70 dB
Audio Resp. .. 350 - 2450 Hz	Image Rej. 65 dB
Audio Out 1 W 3.2 ohms	Antenna Input . 50 ohm

Comments:

The RF-501 receiver is capable of single channel, single sideband operation in the range of 1.6 to 28 MHz. The 2.1 kHz filter is mechanical. The RF-501 is designed for fixed commercial applications.

Made In: United States 1964-1966

Voltages: 115/230 VAC 50/60 Hz
65W

Readout: No Display

Physical: 19x5.25x6" 15 Lbs.
483x133x152mm 6.8 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

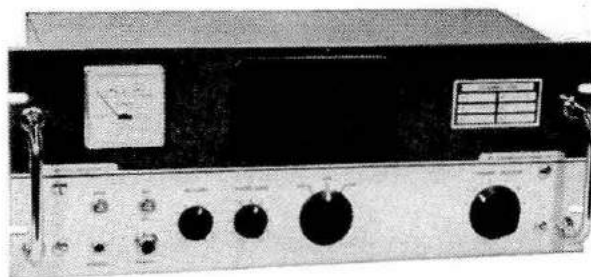
	New	Used
Price:	①	\$200
Rating:	⑥	⑥



RF COMMUNICATIONS, INC.

RF-503

Six Channel Communications Receiver
Double Conversion Superheterodyne.



Features:

- 1/4" Head. Jack
- S-Meter
- Rack Handles
- Line Out 600
- RF Gain
- Speaker 4x6"
- AGC FAST/SLOW

Specifications:

Coverage 1 Chan. 1.6 - 25 MHz. Modes AM/LSB/USB
Selectivity 7/2.1 kHz -6dB. Stability $\pm 2 \times 10^5$
Sensitivity $< 1 \mu V$ 10 db S/N SSB IF Rejection 70 dB
Audio Resp. ... 350 - 2450 Hz Image Rej. 65 dB
Audio Out 1.5 W 3.2 ohms Antenna Input . 50 ohm

Comments:

The RF-503 receiver is capable of six channel, LSB/USB/AM operation in the range of 1.6 to 25 MHz. The 2.1 kHz filter only is mechanical. The RF-503 is designed for fixed commercial applications.

Made In: United States 1964-

Voltages: 115/230 VAC 50/60 Hz
70W

Readout: **Channel** Channel

Physical: 19x7x8" 17 Lbs.
483x178x203mm 7.7 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

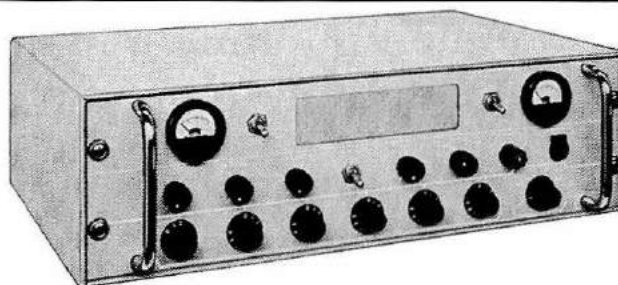
	New	Used
Price:	①	\$250
Rating:	⑥	⑥



RF COMMUNICATIONS, INC.

RF-505

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF Meter (2)
- Squelch
- NB
- RF Gain
- Preselector
- Rack Handles
- Speaker
- ISB
- Modular Construction

Specifications:

Coverage 1600 - 30000 kHz Modes AM/LSB/USB/CW/ISB
Selectivity ? Stability ± 1 PPM
Sensitivity $< .5 \mu V$ 10 db S/N IF Rejection -70 dB
Environment ... -18 to +55°C Dyn. Range 125 dB
Antenna Input 50 ohm

Accessories:

Cabinet

Comments:

The RF-505 is designed for fixed commercial applications, especially ISB. Frequency selection is via decadic knobs. Synthesizer tunes down to 100 Hz steps. [¥250,000].

Made In: United States 1969-1970

Voltages: 100-260 VAC 48-1000 Hz
or 10-40 VDC

Readout: **●●●●●●** Mechanical

Physical: 19x5.25x13.825" 29.25 Lbs.
483x133x352 13.25 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Scarce

	New	Used
Price:	①	\$250-420
Rating:	⑥	⑥



RF-505A

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF Meter (2)
- Squelch
- NB
- RF Gain
- Preselector
- Rack Handles
- Modular Construction
- Speaker
- ISB
- Ext. Freq. Standard

Specifications:

Coverage 10 - 30000 kHz
Selectivity 10/3.3/_ kHz -6dB.
Sensitivity <.5μV
Audio Out 3 W 3.2/600 ohm
IF 156 MHz, 500 kHz
Dyn. Range ... 125 dB

Modes AM/LSB/USB/CW/ISB
Stability $\pm 1 \times 10^6$
IF Rejection -70 dB
Image Reject .. -70 dB
Environment ... -28 to +65°C 95% Humid.
Antenna Input . 50 ohm

Accessories:

RF506 NB
RF509 CW Filter
RF513 Stack Kit
RF522 RF Protector
RF525 SSB Filter

RF507 Preselector
RF511 Speaker
RF514 Rack Kit
RF523 RTTY Filter
RF780 Remote Controller

RF508 Hi Stability $\pm 1 \times 10^6$
RF512 Desk Cabinet
RF520 Mute Module
RF524 RTTY Filter Narrow

Comments:

Designed for fixed commercial applications, especially ISB. Frequency selection is via decadic knobs. Synthesizer tunes down to 100 Hz steps. The RF-505A is the companion to the RF-130 Transmitter.

Made In: United States 1971-1979

Voltages: 100-260 VAC 48-1000 Hz
6W or 10-40 VDC

Readout: Mechanical

Physical: 19x5.25x13.825" 29.25 Lbs.
483x133x352 13.25 kg

Status: Active Manufacturer
Discontinued Model

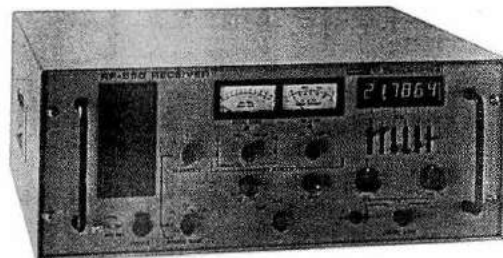
Rarity: Common

	New	Used
Price:	\$5320	\$300-600
Rating:	⑥	⑤



RF-550

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF-Meter
- AF Meter
- Line Out 600 ohm
- RF Gain
- Remote Port
- Rack Handles
- Modular Construction
- BFO ± 1 kHz
- Speaker
- AGC Off/Fast/Slow/Coherent/External

Specifications:

Coverage 100 - 30000 kHz
Selectivity 20/6/3.2/.5/_ kHz -3 dB
Sensitivity <.15 μV CW
Audio Out 2.5W 8 ohm 5% Dist.
IF 158.25, 1.75 MHz

Modes AM/LSB/USB/CW/ISB
Stability $\pm 1 \times 10^6$ per day
Image Reject .. 100 dB
Environment ... -10 to +55°C 95% Humid
Antenna Input . BNC 50 ohms

Circuit Complement:

7 plug-in modules and 11 plug-in printed wiring boards.

Accessories:

RF-551 Preselector
RF-557 Scan Control Unit
RF-560 1 MHz Standard
RF-562 ISB 4 Chan.
RF-794RE Remote Unit
.4 kHz Filter
2.8 kHz Filter
5.7 kHz Filter
1.2 kHz Filter

Comments:

This receiver employs a unique tuning method. Under each digit of the LED frequency display can be found a vertically oriented ten-position slide switch. Each digit is independently selected by sliding the switch to the correct position. The RF-550 matches the RF-130 transmitter.

Made In: United States

Voltages: 115/230 VAC 47-420 Hz
75 W

Readout: Digital

Physical: Cabinet Version:
19.5x7.5x18.5" 48 Lbs
495x191x470mm 21.8 kg
Rack Version:
19x7x18.5" 45 Lbs
483x178x470mm 20.4 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



RF-590



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- Speaker
- B.I.T.E.
- AGC ON/OFF
- S/AF Meter
- Squelch
- Scan
- 1/5/10 MHz I/O
- Speaker Switch
- 100 Memories
- Rack Handles
- Sweep
- BFO ± 9.99 kHz
- IF Out 455 kHz
- Modular Construction
- Speaker Out Jack
- Line Out 600 ohm

Specifications:

Coverage 10 - 30000 kHz Modes AM/LSB/USB/CW
Selectivity 6/3.2/2.8/1.3/_ kHz -3dB. Stability $\pm 1 \times 10^6$
Sensitivity $< .15\mu V$ CW IF Rejection -100 dB
Audio Out 2W 8 ohm 5% Dist. Environment ... -10 to +55°C 95% Humid.
Image Reject .-100 dB

Accessories:

RF-551A Preselector RF-575 Diversity Combiner RF-592 Remote Control Option
RF-593 High Stability RF-595-01 ISB Option RF-595-02 ISB Delay Option
RF-598 ISB-4 Option RF-597 Noise Blanker RF-596-01 Half-Oct. Filter

Comments:

Dwell time is adjustable. The RF-590 enjoys wide use in the American military, especially the Navy. The RF-590 also replaced many Collins 51S-1's in many American embassies worldwide.

Variants: Model **RF-590A** is later production. Model **R-2368/URR** is a variant produced for the Navy. It includes two channel ISB (B8E) as standard.

Made In: United States 1982-1997

Voltages: 100-260 VAC 48-1000 Hz
6W or 10-40 VDC

Readout: **00000.001** Digital

Physical: 19x5.25x20.5" 40 Lbs.
483x133x520mm 18.5 kg

Status: Active Manufacturer
Active Model

Rarity: Very Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

57 R.F.T. Koepenick

The **R.F.T.** was a leading producer of military communications equipment in the former East Germany. The EKD series was the final grouping of receivers produced before the company was acquired by Rohde-Schwarz.

The EKV series preceded the EKD's and were properly classified as "boat anchors". Their size and weight dwarfed even the infamous Collins R-390s. Photos and specifications for this series were not available for this edition. This chapter does illustrate the EKD series showing the EKD 100, 300 and 500 models

The EKD 700 was on the drawing board, but the Company was a casualty of the tumultuous political and economic changes that occurred in the former East Germany in the early 1990's. It has been speculated that Rohde-Schwarz bought R.F.T. just to scrap it, and/or eliminate any patent conflict issues.

**VEB Kombinat
Nachrichtenelektronik**
Leipzig
German Democratic Republic

R.F.T. Koepenick
Leipzig
German Democratic Republic

RFT

EKD100

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- Head. Jack
- S-Meter
- Rack Handles
- Speaker
- RF Gain
- Fine Tuning
- BFO
- Modular Construction
- Speaker Jack
- Line Out Jack
- IF Out Jack

Specifications:

Coverage 14 - 30000 kHz Modes AM/SSB/CW/FAX/ISB
Selectivity 6.8/5.4/6/3/1.4/.5/.1 kHz Environment ... -25° to +55° C.

Accessories:

Comments:

Tuning is via ten position (decade) thumbwheels down to 10 Hz. Produced for the East German military, especially the Navy.

Made In: East Germany 1982 A

Voltages: 115/125/220/240 VAC
50/60 Hz or 24 VDC

Readout: 00000.01 Digital

Physical: Cabinet Version:
21.25x7.8x15.55"
540x198x395mm

Status: Inactive Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

RFT

EKD300

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

**Features:**

- Head. Jack
- S-Meter
- Rack Handles
- Modular Construction
- RF Gain
- Fine Tuning
- Keypad
- Speaker Jack
- Speaker
- BFO
- Line Out Jack
- IF Out Jack

Specifications:

Coverage 14 - 30000 kHz
Selectivity 6.8/5.4/6/3/1.4/.5/1 kHz
Sensitivity <.5µV CW
Image Rej >80 dB
Audio Out5 W 8 ohms

Modes AM/SSB/CW/FAX/ISB
Stability 5×10^{-7} -10 to +50° C.
IF Rejection >80 dB
Environment ... -25° to +55° C.

Accessories:

EZ100 Preselector/Diversity/FSK Mux. (shown)
EZ111 Preselector/Diversity/FSK Mux.

Comments:

Similar to the EKD100, but with a manual tuning knob and keypad entry.

Made In: East Germany 1986 A

Voltages: 115/125/220/240 VAC
50/60 Hz or 24 VDC

Readout: **00000.01** Digital

Physical: Cabinet Version:
21.25x7.8x15.55"
540x198x395mm

Status: Inactive Manufacturer
Inactive Model

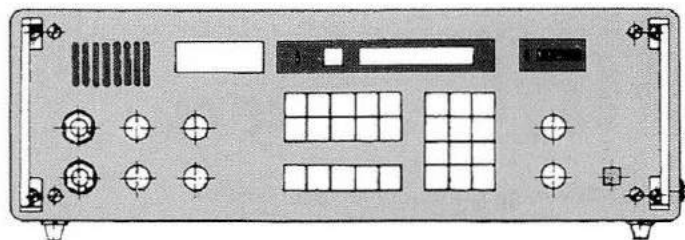
Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

RFT

EKD511

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

**Features:**

- Head. Jack
- S-Meter
- Rack Handles
- Modular Construction
- RF Gain
- Fine Tuning
- Keypad
- Speaker Jack
- Speaker
- 100 Memories
- Serial Port
- Scan
- Sweep
- IF Out
- Sweep
- Clock
- Line Out (2)

Specifications:

Coverage 14 - 30000 kHz
Selectivity See Comments.
Sensitivity <.5µV CW
Image Rej >80 dB
Audio Out5 W 8 ohms

Modes AM/SSB/CW/FAX/ISB
Stability 5×10^{-7} -10 to +50° C.
IF Rejection >80 dB
IF 70.2 MHz, 200 kHz
Environment ... -25° to +55° C.

Comments:

Bandwidths for the EKD 511: 6/3.1/1.75/.75/.4/.15 and +.25-3 and -.25-3 kHz. The EKD511 may be used as a master or slave receiver. It features a built-in RTTY and FAX demodulators. The two line outputs are at 200 ohms.

Variants:

Model **EKD 512** has slightly different bandwidths in position 7 and 8: 6/3.1/1.75/.75/.4/.15 and +.25 - 3 and -.25 - 3 kHz.

Made In: East Germany 1987 A

Voltages: 127/220 VAC 55W
45/65 Hz or 12/24 VDC

Readout: **00000.01** Digital

Physical: Cabinet Version:
21.25x7.8x15.55" 55 Lbs.
540x198x395mm 25 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

58 Radio Mfg. Engineers

The **Radio Manufacturing Engineers Company** was established in 1932. The Company's best years were before World War II. Their most popular model was the RME-69.

The company merged with Electro-Voice in 1953. Electro-Voice is still in business.

The author is seeking further information on their last model, the RME 6902 produced in the early 1960's.

Radio Mfg. Engineers Inc.

304 First Ave.
Peoria 6, Ill.

1934-1949

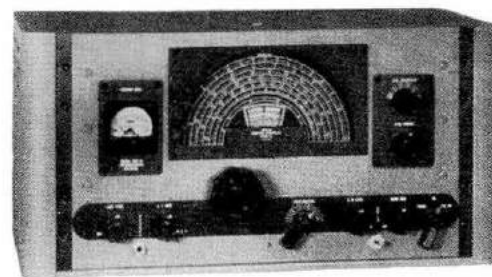
RME Division

Electro-Voice Inc.
Buchanan, MI

RME

RME 45

General Coverage Communications Receiver
Single Conversion Superheterodyne. 9 Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- Standby
- BFO
- S-Meter
- ANL
- Dial Lamp
- AVC
- Tone Switch
- Ext. Speaker
- Bandsread
- Mute Line
- Two Tuning Speeds

Specifications:

Coverage 550 - 33000 kHz
Selectivity 5 Position
Audio 3 Watts
Modes AM/CW
IF 455 kHz.
Antenna Input . Terminals

Circuit Complement:

7B7 RF Amp, 7J7 Converter, 7B7 1st Amp, 7B7 2nd IF Amp, 7B6 Detector/BFO, 7C7 AF Amp, 7A6 NL, 7C5 Power Output and 80 Rectifier.

Accessories:

Speaker NBF-4 NBFM Adapter

Comments:

Ranges: .54-1.6, 1.6-2.9, 2.9-5.4, 5.4-9.8, 9.8-18 and 18-33 MHz. Requires a speaker.

Variants: A universal voltage variant was also produced which operated from 115/230 VAC 25/60 Hz. Model **RME-45B** had 10 tubes using a 5Y3G instead of an 80 plus adding VR-150 Regulator. It also featured two-speed tuning and calibrated bandsread 1947. Model **RME-79** that came out in 1953 has a similar appearance and identical knobs positions, but featured a geared "Dial-O-Matic" tuning knob.

Made In: United States 1946-1948

Voltages: 110-120 VAC 50/60 Hz
90W

Readout:  Analog

Physical: 22.19x12x11" 44.25 Lbs.
563x305x279mm 20 kg

Status: Inactive Manufacturer
Inactive Model

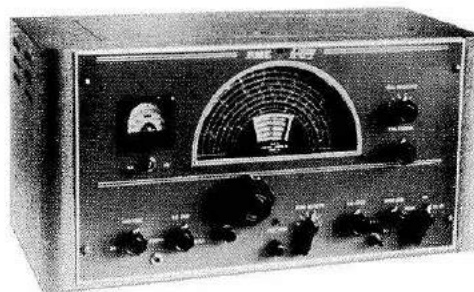
Rarity: Scarce

	New	Used
Price:	\$166-199	\$80-200
Rating:	⑦	⑦

RME

RME 50

General Coverage Communications Receiver
Single Conversion Superheterodyne. 12 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Speaker 5"
- Antenna Trimmer
- RF Gain
- ANL
- Tone Switch
- Mute Line
- Standby
- Bandsread
- Extl. Speaker
- Hinged Cover
- BFO
- Dial Lamp

Specifications:

Coverage 550 - 33000 kHz
Selectivity 5 position
Sensitivity < 2µV
Audio Out 1.5 W
Modes AM/CW/NBFM
IF 455 kHz.
Antenna Input . Terminals

Circuit Complement:

6BJ6 RF Amp, 6U8A Osc/Mixer, 6BJ6 1st IF Amp, 6BJ6 2nd IF Amp, 6AU6 BFO, 6AU6 1st AF Amp, 6V6 AF Output, 6AL5 2nd Detector/ANL, 6AL5 Ratio Detector, 6BJ6 Limiter, VR-150 Voltage Regulator and 5Y3GT Rectifier.

Accessories:

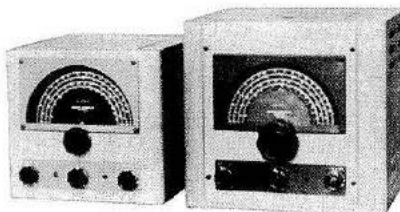
DB22A Preselector in type "S" (small) or standard cabinet (both shown to the right).

Comments:

Gray metal cabinet. Sold with External Speaker 8".

Variants:

Model **RME 50A**.



Made In: United States 1952-1954

Voltages: 115 VAC 50/60 Hz

Readout:  Analog

Physical: 22.19x12x11" 58 Lbs.
563x305x279mm 26.3 kg

Status: Inactive Manufacturer
Inactive Model

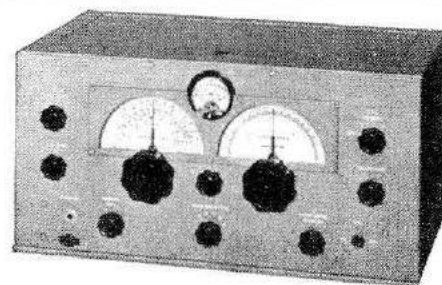
Rarity: Scarce

	New	Used
Price:	\$188-197	\$80-160
Rating:	⑦	⑦

RME

RME 69

General Coverage Communications Receiver
Single Conversion Superheterodyne. 9 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Speaker 5"
- Bandsread 0-100
- BFO
- Mute Line
- Standby
- Tone
- Hinged Cover

Specifications:

Coverage 540 - 44000 kHz
IF 465 kHz.
Audio Out 2.5W 600/4000 ohms
Modes AM/CW
Antenna Input . Terminals

Circuit Complement:

6JB6 RF Amp, 6U8A Mixer, 6BJ6 1st IF Amp, 6BJ6 2nd IF Amp, 6H6 Detector/NL, 6SL7 BFO/1st AF Amp, 6G6G Audio Output and 5Y3GT Rectifier.

Accessories:

DB20 Preselector

Comments:


Note that the intermediate frequency is 465 kHz, not 455 kHz.

Variants:

There are four versions: Model **RME 69 AC**, Model **RME 69 AC/Battery**, Model **RME 69 AC with Noise Silencer** and Model **RME 69 AC/Battery with Noise Silencer**.

Made In: United States 1936-1940

Voltages: 115/VAC 50/60 Hz

Readout:  Analog

Physical: 19x9.25x10.625" 32 Lbs.
483x235x270mm 14.5 kg

Status: Inactive Manufacturer
Inactive Model

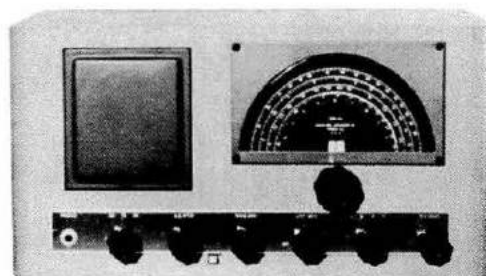
Rarity: Scarce

	New	Used
Price:	①	\$80-200
Rating:	⑦	⑦

RME

RME 84

General Coverage Communications Receiver
Single Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- BFO
- Standby
- ANL
- Hinged Top
- Speaker 5"
- Tone Switch
- Dial Lamp
- Antenna Trimmer
- Mute Line
- Battery Input Jack

Specifications:

Coverage 540 - 44000 kHz
Selectivity 2.8 -6dB.
Sensitivity < 2μV
Audio Out 1.1 W
Modes AM/CW
IF 455 kHz.
Antenna Input . Terminals

Circuit Complement:

7B7 RF Amp, 7S7 Converter, 7B7 1st IF Amp, 7B7 2nd IF Amp, 7K7 Detector/AVC/AF, 7K7 NL/BFO, 6G6G Audio Output and 5Y3GT Rectifier.

Accessories:

CM-1 External S-Meter VP-5 Power Pack for 6VDC
DB-22A Preselector VHF-152 2/6/10 Meter Converter

Comments:

Ranges: .54-1.65, 1.65-5, 5-15 and 15-44 MHz

Variants:

Model **RME84A** differences unknown.

Made In: United States 1946-1949

Voltages: 110-120VAC 50/60 Hz
62W or A & B Batteries

Readout:  Analog

Physical: 18x9.5x9.75" 28 Lbs.
457x241x248mm 12.7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

	New	Used
Price:	\$98-110	\$40-90
Rating:	⑦	⑦

RME

Electro-Voice

RME 4300

Amateur Band Communications Receiver
Double Conversion Superheterodyne. 8 Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute Terminals
- Standby
- S-Meter
- ANL
- Dial Lamp
- 2 Tuning Rates
- BFO
- Cal. Adjust
- Hinged Top
- Antenna Trimmer
- 75:1 Tune Ratio
- Ext. Spkr Terminals

Specifications:

Coverage Ham. See Comments.
Selectivity 4 pos.
Sensitivity <2μV 10 dB S/N
Calibration02%
Audio Out 1.5 W 4 ohms
Modes AM/CW/MCW/SSB
Image Ratio >40 dB <14.35 MHz
Image Ratio >25 dB >21 MHz
Drift01%
Antenna Input . Terminals 50-600 ohms

Circuit Complement:

6CB6 RF Amp, 6U8 Converter Osc., 6CB6 IF, 6U8 IF/BFO, 6T8 Detector/ANL/AF, 6AQ5 Output, 0A2 Regulator and 5Y3 Rectifier. One RF and two IF stages.

Accessories:


4302 Speaker 4301 Sideband Detector 8933 Calibrator 100 kHz

Comments:

Coverage: 1.8-2, 3.5-4, 7-7.3, 14-14.35, 21-21.5 and 27-29.7 MHz. SSB performance is enhanced with the 4301 Sideband Detector. Requires a speaker.

Made In: United States 1955-1957

Voltages: 117 VAC 50/60 Hz 65W

Readout:  Analog

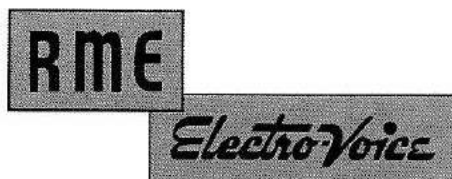
Physical: 16.5x10x10" 28 Lbs.
419x254x254mm 12.7 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST October 1956

	New	Used
Price:	\$194	\$100-160
Rating:	⑦	⑦



RME 4350



Amateur Band Communications Receiver

Double Conversion Superheterodyne. 9 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- Antenna Trimmer
- RF Gain
- ANL
- 2 Tuning Speeds
- Ext. Spkr Terminals
- Mute Terminals
- 75:1 Tune Ratio
- Hinged Top Cover
- Standby

Specifications:

Coverage Ham. See Comments. Modes AM/USB/LSB
 Selectivity 2.8 kHz -6dB. Stability01 per cent
 Sensitivity <2μV 10 dB S/N Image Ratio >54 dB
 Audio Out 1.5 W 4 IF 2195, 455 kHz.
 Calibration02% Antenna Input . Terminals

Circuit Complement:

6BZ6 RF Amp, 6U8A 1st Mixer 6CB6 1st Amp, 6U8 2nd Mixer, 6U8 2nd IF Amp/BFO, 6T8 2nd Detector/ANL/1st AF, 6AQ5 AF Output, 5Y3 Rectifier and 0A2 Voltage Regulator.

Accessories:


4302 Speaker 4301 Sideband Detector 8933 Calibrator 100 kHz

Comments:

Ranges: 1.8-2, 3.5-4, 7-7.3, 14-14.35, 21-21.5 and 27-29.7 MHz. Requires a speaker.

Made In: United States 1957-1958

Voltages: 117 VAC 50/60 Hz 65W

Readout:  Analog

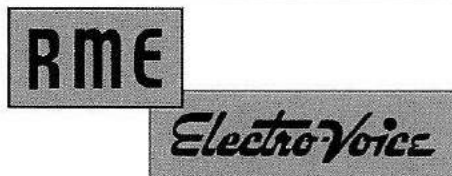
Physical: 16.5x10x10" 32 Lbs.
419x254x254mm 14.5 kg

Status: Inactive Manufacturer
Inactive Model

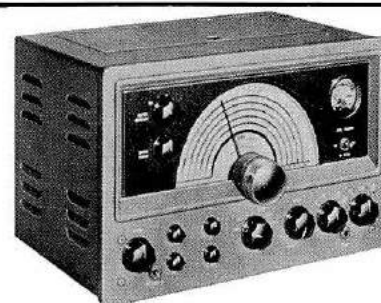
Rarity: Scarce

Reviews: CQ September 1958

	New	Used
Price:	\$229-249	\$70-170
Rating:	⑦	⑦



RME 4350A



Amateur Band Communications Receiver

Double Conversion Superheterodyne. 10 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- BFO
- Antenna Trimmer
- RF Gain
- ANL
- 2 Tuning Speeds
- Calibrator 100 kHz.
- Mute Terminals
- 75:1 Tune Ratio
- Hinged Top Cover
- Ext. Spkr Terminals
- Standby

Specifications:

Coverage Ham. See Comments. Modes AM/CW¹
 Selectivity 2.8 kHz -6dB. Stability01 per cent
 Sensitivity <1 to 2μV 10 db S/N Image Ratio >54 dB
 Audio Out 1.5 W 4 ohms IF 2195, 455 kHz.
 Calibration02% Antenna Input . Terminals

Circuit Complement:

6BZ6 RF Amp, 6U8A 1st Mixer 6CB6 1st Amp, 6U8 2nd Mixer, 6U8 2nd IF Amp/BFO, 6T8 2nd Detector/ANL/1st AF, 6AQ5 AF Output, 5Y3 Rectifier, 0A2 Voltage Regulator and 6CB6 Crystal Calibrator.

Accessories:


4302 Speaker 4301 Sideband Detector DB23 Preselector

Comments:

Ranges: 1.8-2, 3.5-4, 7-7.3, 14-14.35, 21-21.5 and 27-29.7 MHz. Note that the "A" model now includes the Calibrator, previously optional on the RME4350. The toggle switch for this can be seen below the S-Meter. ¹The LSB/USB mode positions will not function without the optional 4301 Sideband Detector. Requires a speaker.

Made In: United States 1958-1959

Voltages: 117 VAC 50/60 Hz 65W

Readout:  Analog

Physical: 16.5x10x10" 32 Lbs.
419x254x254mm 14.5 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Scarce

Reviews: QST September 1958

	New	Used
Price:	\$249	\$90-200
Rating:	⑦	⑦



RME 6900



Amateur Band Communications Receiver

Double Conversion Superheterodyne. 12 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S-Meter
- T Notch
- Calibrator 100 kHz.
- RF Gain
- ANL
- Antenna Trimmer
- Two Tuning Speeds
- Mute Terminals
- Line Out 500 ohm
- Standby
- Ext. Spkr Terminals
- AGC
- Cal. Adjust
- 54:1 Tune Ratio

Specifications:

Coverage Ham. See Comments. Modes AM/USB/LSB
Selectivity 3.6/2/.5 kHz -6dB. Stability <.005% (after 15 mins.)
Sensitivity <1 μ V 10 dB S/N Notch Rej. >40 dB
Image Ratio ... 56 dB Antenna Input . Terminals & SO239
Audio Out 1 W 4 ohms IF 2195, 57 kHz.

Circuit Complement:

6BA6 RF Amp, 6U8A 1st Mixer/Stabilizer. Osc, 6U8A 2nd Mixer/Crystal Osc, 6C4 1st IF & T Notch, 6BA6 2nd IF, 6BA6 3rd IF, 6AL5 NL, 6T8 2nd Detector/1st Audio, 6AQ5 AF Out, 6CB6 Crystal Calibrator Osc, 12AT7 Product Detector/BFO and 2 type 1N1763 diode power rectifiers.

Accessories:

6901 Speaker

Comments:

Coverage: 3.5-4, 7-7.3, 10-11, 14-14.4, 21-21.5 and 28-29.7 MHz. Features an 11 1/2 inch drum type tuning dial. Requires speaker.

Mfg. In: United States 1959-1962

Voltages: 117 VAC 50/60 Hz 55W

Readout:  Analog Lin.

Physical: 17x9.75x12.125" 35 Lbs.
432x248x308mm 15.9 kg

Status: Inactive Manufacturer
Inactive Model

Rarity: Very Scarce

Reviews: QST February 1961

	New	Used
Price:	\$350-369	\$150-350
Rating:	⑦	⑦

59 Rohde & Schwarz

The **Rohde & Schwarz Company** is an established and respected German manufacturer of communications equipment.

Rohde & Schwarz became best known to the listening community with the development (1953-1955) of the famous EK 07 general coverage receiver. This, the "Collins R-390" of Germany, was of the highest technology of the time and offered frequency accuracy and performance that was to be a standard for nearly twenty years.

Today Rohde & Schwarz is engaged in the development, manufacturing and marketing of professional radio communications products. They provide system solutions in the fields of: global communications, ATC and airport communications, avionics and naval communications.

Rohde & Schwarz GmbH & Co. KG
Postfach 80 14 69
D-8000 München 80
Germany 1979-1997



ROHDE & SCHWARZ

EK 07

General Coverage Communications Receiver
Double Conversion Superheterodyne. 27 Tubes.



Features:

- 1/4" Head. Jack (2)
- S&AF Meters
- RF Gain
- Calibrator
- Mute
- AGC (3 Pos.)
- BFO ± 3 kHz
- Diversity Mode
- Osc. Out Jack
- IF Out Jack
- NB
- Flywheel Tuning
- ANL
- Spinner Knob
- Tube Checker
- Rack Handles
- 30:1 Tuning Ratio
- Modular Construction
- Line Out 600 ohm
- Flywheel

Specifications:

Coverage 500 - 30100 kHz
Selectivity 12/6/3/1.5/6/.3 kHz
Sensitivity $< 2\mu\text{V}$ 3.1-30.1 MHz
Image Rej $> 70 - 80$ dB
Audio Output .2W 15 ohm 10% THD
Modes AM/CW
IF 3.3 MHz and 300 kHz.
IF Rejection > 75 dB
Antenna Input . Coaxial 50-75 ohm

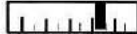
Accessories: NZ-10 SSB Adapter

Comments: Ranges: 3.1-6.1, 6.1-9.1, 9.1-12.1, 12.1-15.1, 15.1-18.1, 18.1-21.1, 21.1-24.1, 24.1-27.1, 27.1-30.1 and .5-1.1, 1.1-2.1, 2.1-3.1 MHz. Turret-type band display. Dual concentric tuning knobs. Frequency accuracy is 1 kHz. The S Meter is calibrated in μV . Requires a speaker. Incredible craftsmanship is evident in this classic receiver. The meter on the left checks performance of each tube (an early version of B.I.T.E.). Sometimes called the R-390 of Germany, the workmanship is compared (better?) than Collins. One of the best tube radios every made.

Variants: The model **EK 07/D** refers to the German version. Additional suffix numbers such as /D1 and /D2 refer to different connectors on the rear panel.

Made In: Germany 1956-1966

Voltages: 115/125/220/235 VAC
47-63 Hz 130 W

Readout:  Analog Lin.

Physical: 21.5x13x21.6" 146 Lbs.
540x330x550mm 66.3 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	\$6000	\$2000-2500
Rating:	★★★★★	⑦



ROHDE & SCHWARZ

EK 047

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF Meter
- NB
- Rack Handles
- RF Gain
- BFO
- Tilt Bar

Specifications:

Coverage 10 - 30000 kHz
Selectivity / / / / kHz
Sensitivity <.1µV CW
Image Rej >80 dB
IF Rejection ... >90 dB

Modes ISB/AM/LSB/USB/CW
Stability 5x10⁻⁸ per month
Environment -25 to +55° C. 95% Humid.
Antenna Input . 50 ohm

Accessories:

Preselector Filters NZ Telegraphy Demodulator
Rack Mount

Comments:

Frequency tuning is achieved through separate knobs for: 10 MHz, 1 MHz, 100 kHz, 10 kHz, 1 kHz and 100 Hz.

Variants:

Also sold as Siemens E401.

Made In: Germany 1985-1988

Voltages: 100/120/220/240 VAC
45-60 Hz 84VA

Readout: **00000.1** Digital Nixie

Physical: ?

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

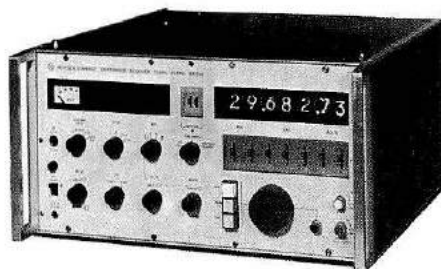
	New	Used
Price:	①	⑤
Rating:	⑥	⑥



ROHDE & SCHWARZ

EK 049

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF Meter
- NB
- Rack Handles
- RF Gain
- BFO
- AGC (4 Pos.)
- Three Tuning Rates
- Remote Bus
- AFC
- Dial Lock

Specifications:

Coverage 10 - 30000 kHz
Selectivity 6 Position
Sensitivity <.1µV CW
Image Rej >80 dB
IF Rejection ... >80 dB

Modes ISB/AM/LSB/USB/CW
Stability 5x10⁻⁸ per month
Environment -25 to +45° C. 95% Humid.
Antenna Input . 50 ohm

Accessories:

Preselector Unit Filters NZ Telegraphy Demodulator
Rack Mount Notch Filter / AFC N403 Remote Controller

Comments:

Frequency tuning is achieved through separate decadic thumbwheel knobs for: 10 MHz, 1 MHz, 100 KHz, 10 kHz, 1 kHz, 100 Hz and 10 Hz or via manual tuning knobs. Up to 30 receivers may be controlled remotely.

Variants:

See Siemens E403.

Made In: Germany 1986-1988

Voltages: 100/120/220/240 VAC

Readout: **00000.01** Digital Nixie

Physical: ?

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

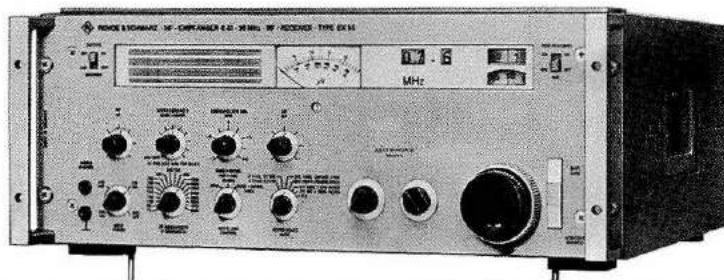
	New	Used
Price:	①	⑤
Rating:	⑥	⑥



ROHDE & SCHWARZ

EK 056

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF Meter
- NB
- Rack Handles
- RF Gain
- BFO
- Tilt Bar
- Speaker
- Carry Handles
- GAC
- Speaker Switch

Specifications:

Coverage 10 - 30000 kHz
Selectivity 20 Pos. .075-12 kHz
Sensitivity <.8µV 20 dB S/N CW
Image Rej >80 dB
Dyn. Range ... >80 dB

Modes AM/LSB/USB/CW
Stability 5 Hz/day

Comments:

The frequency is displayed digitally through the 100 kHz position, then via an analog dial. The analog dial is very accurate providing better than 1 kHz resolution. This model was featured in a full page ad in the June 1974 issue of *QST*.

Made In: Germany 1972-1975

Voltages: ?

Readout: 00.1 MHz

Digital to 100 kHz, then
Analog Linear.

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

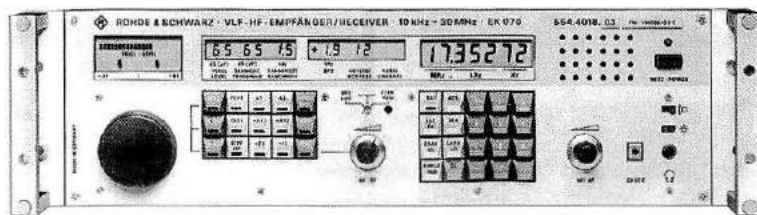
	New	Used
Price:	\$7000A	⑤
Rating:	⑥	⑥



ROHDE & SCHWARZ

EK 070

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Indicator
- Speaker
- BFO ±3.1 kHz
- RF Gain
- 30 Memories
- BITE
- IEEE 488 Bus
- I.F. Out Jack
- Squelch
- Atten. -20 dB
- Rack Handles
- AGC/MGC
- Speaker Switch
- Keypad
- 3 Tuning Rates

Specifications:

Coverage 10 - 30000 kHz
Selectivity 12/6/3/1.5/6/3/1.5 kHz -3dB.
Sensitivity <.7µV CW
Image Rej >80 dB
Audio Output .1W 5 0hm

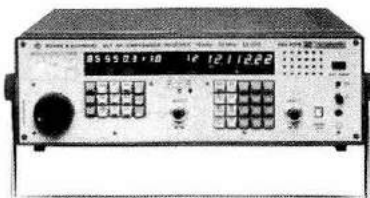
Modes AM/LSB/USB/CW/MCW
Stability <3x10⁻⁷ @25°C >10 min.
IF Rejection >80 dB
IF 81.4 MHz, 1.4 MHz
Environment -25 to +55° C. 95% Humid.

Accessories:

ISB Option
FDM Option
RTTY Option
FM Option

Comments:

Memories store frequency, mode and bandwidth. The alternate liquid crystal displays show bandwidth, BFO offset, memory, etc. Shown right is earlier production with LED frequency display, analog S-Meter and carry handle. Light gray. An outstanding receiver.



Made In: Germany 1979-1997

Voltages: 100/120/220/240 VAC
47-440 Hz 65 VA

Readout: 00000.01 Digital LCD.

Physical: 19x5.9x20" 44 Lbs.
484x149x507mm 20 kg

Status: Active Manufacturer
Active Model

Rarity: Extremely Scarce

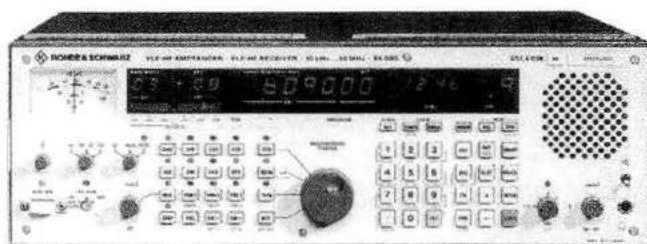
	New	Used
Price:	\$10,000A	⑤
Rating:	⑥	⑥



ROHDE & SCHWARZ

EK 085

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- B.I.T.E.
- Clock-Timer
- Speaker Switch
- S-Meter
- 100 Memories
- Carry Handle
- Dimmer
- B.I.T.E.
- Squelch
- Speaker
- Modular
- BFO ± 1.5 kHz
- RS232 or IEEE488
- Keypad
- 600 Ohm Line Out
- I.F. Out 1.44 MHz
- 5 MHz Ref. Jack

Specifications:

Coverage 10 - 30000 kHz
Selectivity 4/2.4/3-2.7/1.2/15 kHz
Sensitivity $< 2\mu V$ CW with LPF
Audio 2W at 4 ohms
Enviroment -25 to +55° C. 95% Humid.

Modes AM/LSB/USB/CW/RTTY
Stability 3×10^{-7}
IF 80.64, 1.44 MHz
Antenna Input . BNC 50 ohm

Accessories:

GA001 Speaker
Filters

GM853C2 ISB Modem
Cabinet

GM085P1 FAX Demodulator

Comments:

The EK 085 may be tuned in 10, 100 or 1000 Hz increments. It has a built-in FSK demodulation supporting shifts of ± 42.5 kHz, ± 85 Hz and ± 425 Hz.

Made In: Germany 1987-1997

Voltages: 100/120/220/240 VAC 50W
47-420 Hz or 19-31 VDC

Readout: **00000.01** Digital LCD.

Physical: Rack Version:
19x5.2x21.25" 39.7 Lbs.
483x132x540 18 kg
Cabinet Version:
18.5x6.5x19.9"
471x164x505mm

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

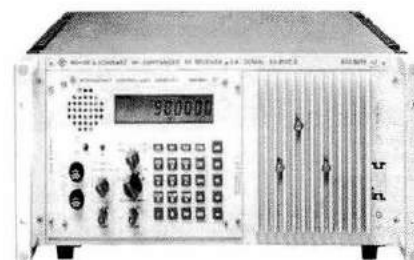
	New	Used
Price:	①	⑤
Rating:	⑥	⑥



ROHDE & SCHWARZ

EK 851C2

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- Head. Jack
- RF Gain
- I.F. Out Jack
- B.I.T.E.
- 100 Memories
- Rack Handles
- Squelch
- Speaker
- Preselector
- Keypad
- Speaker Switch

Specifications:

Coverage 400 - 30000 kHz
Selectivity 2.4/3-2.7/3 kHz -3dB.

Modes AM/LSB/USB/CW/RTTY
Sensitivity $< 4\mu V$ CW

Accessories:

ISB Option

IN852C1 Power Supply 115/220 VAC

Comments:

This receiver matches the YK852 transmitter. It has a built-in FSK demodulation supporting shifts of ± 42.5 kHz, ± 85 Hz and ± 425 Hz.

Made In: Germany 1993-1997

Voltages: 19 to 31 VDC
or AC with IN852C1 P.S.

Readout: **00000.01** Digital LCD.

Physical: 16.7x6.9x15.7" 62 Lbs
426x176x400mm 28 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



ROHDE & SCHWARZ

EK 890

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Indicator
- PBT
- Built in Self-Test
- RF Gain
- 1000 Memories
- BFO
- RS232/485 Port
- I.F. Out Jack
- Scan & Sweep
- Ext. Ref. Input 1/5/10 MHz

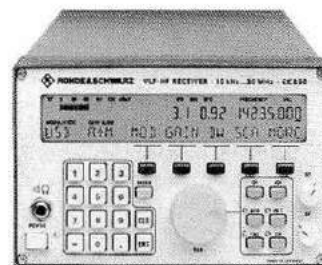
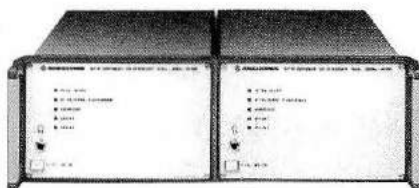
Specifications:

Coverage 10 - 30000 kHz
Selectivity 8/3.1/ / / / kHz -3dB.
Sensitivity <1μV SSB
Image Rej >90 dB
Line Out 600 ohms
Modes AM/LSB/USB/CW/FAX
Stability ±5 PPM (±1 PPM optional)
IF Rejection >90 dB
IP3 >35 dBm
Antenna Input . BNC 50 ohm

Accessories:

Various Filters
FK890 Preselector GM890 Signal Processor GA890L1 Speaker
GC890 BCD Interface GH890 TTY Loop Supply GB899 Remote Control

Comments: This receiver may also be rack mounted in a single or dual configuration. Memories store all receiver parameters. In master-slave operation, the EK-890 can control up to 99 slave receivers.
Variants: The EK 890 also available for computer control only without front control panel. Either configuration can be dual-mounted in a 19 inch rack. The EK890 is shown right in a dual configuration.



Made In: Germany 1991-1997

Voltages: 100/120/220/240 VAC
47 - 420 Hz 25 VA

Readout: **00000.001** Digital LCD.

Physical: 8.3x5.2x18.1 17.7 Lbs.
211x132x460mm 8 kg

Status: Active Manufacturer
Active Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



ROHDE & SCHWARZ

EK 891

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Indicator
- PBT
- Built in Self-Test
- RF Gain
- 1000 Memories
- Speaker
- RS232/485 Port
- I.F. Out Jack
- Scan & Sweep
- Ext. Ref. Input 1/5/10 MHz
- BFO
- Speaker Switch
- Keypad

Specifications:

Coverage 10 - 30000 kHz
Selectivity 6 Pos. .2-8 kHz -3dB.
Sensitivity <3μV CW
Image Rej >90 dB
Line Out 600 ohms
BFO Resol. ... 10 Hz.
Modes AM/LSB/USB/CW/FAX
Stability ±5 PPM (±1 PPM optional)
IF Rejection >90 dB
Environment ... -25 to +55°C. 95% Humid.
Antenna Input . BNC 50 ohms

Accessories:

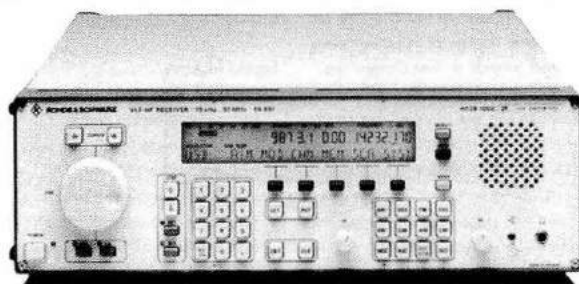
FK890 Preselector GM890 Signal Processor GH890 TTY Loop Supply
GC890 BCD Interface GB899 Remote Control 6 kHz Filter
1.5 kHz Filter 600 Hz Filter 200 Hz Filter

Comments:

Memories store all receiver parameters. May be rack mounted.

Variants:

The EK 891 is also available for controlling up to 99 slave receivers



Made In: Germany 1992-1997

Voltages: 100/120/220/240 VAC
47 - 420 Hz 25 VA

Readout: **00000.001** Digital LCD.

Physical: 16.7x5.2x18.1" 44 Lbs
426x132x460mm 20 kg

Status: Active Manufacturer
Active Model

Rarity: Extremely Scarce

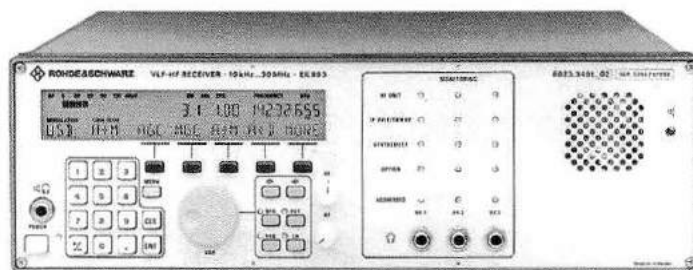
	New	Used
Price:	①	⑤
Rating:	⑥	⑥



ROHDE & SCHWARZ

EK 893

General Coverage Communications Receiver (Triple)
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack (4)
- S-Indicator
- PBT
- Built in Self-Test
- RF Gain
- 1000 Memories
- Speaker
- RS232/485 Port
- I.F. Out Jack
- Scan & Sweep
- Ext. Ref. 1/5/10 MHz
- Speaker Switch
- Tilt Legs

Specifications:

Coverage 10 - 30000 kHz
Selectivity 8/3.1/___/___ kHz -3dB.
Sensitivity <.1µV SSB
Image Rej..... >90 dB
Line Out 600 ohms

Modes AM/LSB/USB/CW/FAX
Stability ±5 PPM (±1 PPM optional)
IF Rejection >90 dB
Antenna Input . BNC
Environment ... -25 to +55° C. 95% Humid.

Accessories:

UX890 IF Converter GM890 Signal Processor
Hi Stability Option 6 kHz Filter 1.5 kHz Filter
600 Hz Filter 200 Hz Filter

Comments: The EK 893 is designed to mount in a 19" rack and provides three separate and independent receivers operated via a common processor and power supply. Simultaneous reception of three different signals, in three different modes, is possible. Memories store all receiver parameters. BFO resolution is 10 Hz.

Variants: Also available for computer control only without front control panel.



Made In: Germany 1992-1997

Voltages: 100/120/220/240 VAC
47 - 420 Hz 25 VA

Readout: **00000.001** Digital LCD.

Physical: 16.7x5.2x18.1" 44 Lbs
426x132x460mm 20 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



ROHDE & SCHWARZ

EK 895

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Indicator
- PBT
- Built in Self-Test
- RF Gain
- 1000 Memories
- BFO
- RS232/485 Port
- I.F. Out Jack
- Scan & Sweep
- Preamp
- Squelch
- NB
- Notch
- Ext. Ref. 1/5/10 MHz
- Keypad
- Tilt Legs

Specifications:

Coverage 10 - 30000 kHz
Selectivity 8/3.1/___/___ kHz -3dB.
Sensitivity <.1µV SSB
Image Rej..... >90 dB
Line Out 600 ohms

Modes AM/LSB/USB/CW/FAX
Stability ±5 PPM (±1 PPM optional)
IF Rejection >90 dB
BFO Resol. 10 Hz.
Antenna Input . BNC 50 ohm

Accessories:

FK890 Preselector GM890 Signal Processor GH890 TTY Loop Supply
GC890 BCD Interface GB899 Remote Control GB890 Control Panel (shown)
1.5 kHz Filter 600 Hz Filter 200 Hz Filter
6 kHz Filter

Comments: The EK895 is an enhanced version of the EK 890. Newly added features include: Preamp, Noise Blanker, Squelch, Notch Filter and PBT.

Variants: Also available for computer control only without the GB890 front control panel as shown to the right.



Made In: Germany 1993-1997

Voltages: 100/120/220/240 VAC
47 - 420 Hz

Readout: **00000.001** Digital LCD.

Physical: 8.3x5.2x18.1 17.7 Lbs.
211x132x460mm 8 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

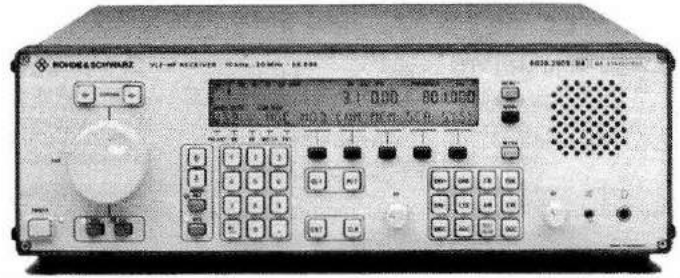
	New	Used
Price:	\$7800A	⑤
Rating:	⑥	⑥



ROHDE & SCHWARZ

EK 896

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Indicator
- PBT
- Built in Self-Test
- RF Gain
- 1000 Memories
- BFO
- RS232/485 Port
- I.F. Out Jack
- Scan & Sweep
- Preamp
- Squelch
- NB
- Notch
- Ext. Ref. 1/5/10 MHz
- Tilt Legs
- Speaker
- Speaker Switch
- Keypad

Specifications:

Coverage 10 - 30000 kHz Modes AM/LSB/USB/CW/FAX/ISB
Selectivity 13 from 8-.15 kHz -3dB. Stability ± 5 PPM
Sensitivity $< .2\mu V$ CW BFO Resol. 10 Hz.
Line Out 600 ohms Antenna Input . BNC 50 ohm
Environment -25 to +55° C. 95% Humid.

Accessories:

FK890 Preselector GM890 Signal Processor GH890 TTY Loop Supply
GC890 BCD Interface GB899 Remote Control 6 kHz Filter
1.5 kHz Filter 600 Hz Filter 200 Hz Filter

Comments:

The EK 896 can control up to 99 slave receivers. May be rack mounted. It has a very similar appearance to the EK 891. However the EK 896 uses DSP and has more bandwidths.

Made In: Germany 1994-1997

Voltages: 100/120/220/240 VAC
47 - 420 Hz 25 to 75W

Readout: **00000.001** Digital LCD.

Physical: 16.8x5.2x18.1" 24 Lbs
426x132x460mm 11 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

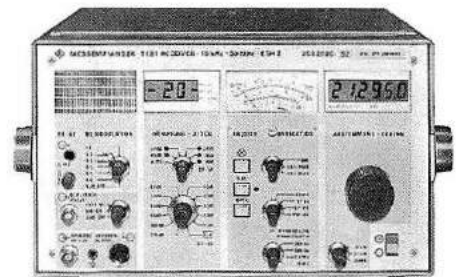
	New	Used
Price:	\$12500A	⑤
Rating:	⑥	⑥



ROHDE & SCHWARZ

ESH 2

General Coverage Communications Test Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Dial Lock
- Built in Self-Test
- RF Gain
- Speaker
- Carry Handle
- Attenuator
- I.F. Out Jack
- Scan & Sweep
- 75 MHz Output

Specifications:

Coverage 9 - 30000 kHz Modes AM/LSB/USB/CW/FM
Selectivity 10/2.4/.5/.2 kHz -3dB.

Accessories:

Active Probe Passive Probe Clamp-on RF Current Probe
Rod Antenna Loop Antenna Inductive Probe

Comments:

This **not** a traditional shortwave receiver. It is a general purpose test receiver designed for the following applications: Field-strength measurements in conjunction with the design and manufacture of antennas and radio interference measurements. Remote frequency measurements and selective voltage measurements for laboratory and test departments.

Variants:

Sold in the U.S.A. as **Polarad ESH 2**. Sold by Polarad Electronics, Inc., 5 Delaware Dr., Lake Success, NY 11042.

Made In: Germany 1987-1997

Voltages: 100/120/220/240 VAC
47 - 420 Hz or Batteries.

Readout: **00000.1** Digital LCD.

Physical: ?

Status: Active Manufacturer
Active Model

Rarity: Extremely Scarce

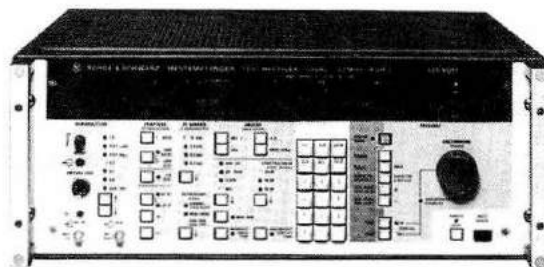
	New	Used
Price:	①	⑤
Rating:	⑥	⑥



ROHDE & SCHWARZ

ESH 3

General Coverage Communications Test Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- IEEE488 Bus
- Built in Self-Test
- RF Gain
- Speaker
- Rack Handles
- Alpha-Numeric Data
- I.F. Out Jack
- Scan & Sweep
- 75 MHz Output
- Keypad

Specifications:

Coverage 9 - 30000 kHz Modes AM/LSB/USB/CW/FM
Selectivity 10/2.4/.5/.2 kHz -3dB.

Accessories:

Active Probe Passive Probe Clamp-on RF Current Probe
Rod Antenna Loop Antenna Inductive Probe

Comments:

This **not** a traditional shortwave receiver. It is test receiver designed for the following applications: Field-strength measurements in conjunction with the design and manufacture of antennas. Radio interference measurements. Remote frequency measurements and selective voltage measurements for laboratory and test departments.

Variants:

Sold in the U.S.A. as **Polarad ESH 3**. Sold by Polarad Electronics, Inc., 5 Delaware Dr., Lake Success, NY 11042.

Made In: Germany 1987-1997

Voltages: 100/120/220/240 VAC
47 - 420 Hz

Readout: **00000.1** Digital LED.

Physical: 19.3x8x20.3" 56 Lbs
492x205x514mm 25 kg

Status: Active Manufacturer
Active Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

60 Rosetta Laboratories

The **Rosetta Laboratories' WinRadio** is the latest, if not greatest, totally computer controlled radio. This radio is totally configured on a PC computer board that fits inside the computer.

The Windows user interface is friendly and the WinRadio offers excellent frequency coverage. Like most wide band receivers in this price range, its performance above 30 MHz is more impressive than below 30 MHz.

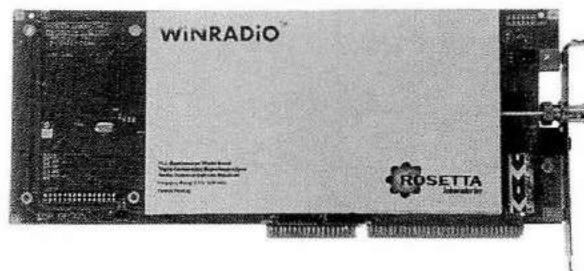
Rosetta Laboratories Pty. Ltd.
222 St. Kilda Rd.
St. Kilda, Victoria
3182, Australia

1995-1997



WiNRADiO

Wideband Communications Computer Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- Mini Head. Jack
- Squelch
- 1000 Memories
- DX Switch
- BFO ± 3 kHz
- Scan
- Scan
- Sweep
- Clock
- Signal Indicator

Specifications:

Coverage 500 kHz - 1.3 GHz
Selectivity unspecified
Audio Out 2 W 8 ohms
Modes AM/SSB/FM-W/FM-N
Sensitivity $< 1 \mu V$ (.5 μV typical)
Ant. Jack BNC

Accessories:

World Station Database Manager

Comments:

Tuning steps: 1 kHz to 1 MHz. Memories store: frequency, mode, callsign, comment, group assignment and hotkey. A stronger performer above 30 MHz than below 30 MHz. System requirements: IBM PC with 386 or higher CPU, DOS 3.3 or higher or Windows 3.1 or higher, including Windows 95, 1 Mb RAM (4 MB suggested) 16 bit slot and speakers or headphones. The American version has cellular frequencies blocked.

Made In: Australia 1996-1997

Voltages: N/A

Readout:  PC

Physical: 12x5x.79" 1.25 Lbs.
300x125x20mm .56 kg

Status: Active Manufacturer
Active Model

Rarity: Scarce

	New	Used
Price:	\$600-700	\$300-400
Rating:	⑦	⑦

The **Sears Company** sold the venerable Yaesu FRG-7 under its own label via its mail-order division.

Sears
Sears Tower
Chicago, IL

Sears

412.36380700

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Preselector
- Attenuator (3 Pos.)
- Fine Tuning
- ANL
- Tone (3 Pos.)
- Speaker
- Mute Line
- Dial Lamp
- Record Jack
- Ext. Spkr Jack
- Spinner Knob
- Carry Handle
- Fiduciary Adjust
- Dial Lamp Switch

Specifications:

Coverage500 - 29900 kHz	Modes AM/LSB/USB-CW
Selectivity6 kHz -6dB.	Stability <±500 Hz (any 30 mins.)
Sensitivity<.7µV SSB	Ant. Jack SO239 and terminals
Audio Out2 W	Record Out 50 mV fixed

Comments:

Ranges: .5-1.6, 1.6-4, 4-1 and 11-29.9 MHz. The 412.36380700 was manufactured for Sears by Yaesu and has a circuit virtually identical to the popular FRG-7. Unlike the FRG-7's gray cabinet, the Sear's version has a black cabinet. Tuning is a 4 step process. Select the appropriate band, set the preselector, set the MHz drum until the lock lamp goes off then tune the main tuning knob. The analog dial accuracy is 10 kHz or better. ¹ Yaesu is an active manufacturer. May be difficult to sell on the used market simply because many people do not know what a Sears 412.36380700 is.

Made In: Japan 1978-1980

Voltages: 117 VAC 50/60 Hz
or 12 VDC or 8 D cells.

Readout:  Analog Lin.

Physical: 6.5x13.5x11.5" 16 Lbs.
340x153x285mm 7 kg

Status: Active Manufacturer¹
Inactive Model

Rarity: Common

	New	Used
Price:	\$399	\$145-170
Rating:	★★★★★	★★★★★

62 Siemens

The huge German conglomerate **Siemens**, manufactures all types of consumer and commercial electronics. This company, which is over 100 years old is a world leader in automation, transportation, energy, telecommunications, transporation and information systems.

In recent years Siemens, has been selling Sangean portables under their label.

For the Siemens E401, please see Rohde & Schwarz EK 047.

Siemens
Germany



E 311A

General Coverage Communications Receiver
Triple Conversion Superheterodyne. 16 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Rack Handles
- Dial Lamp
- RF Gain
- Speaker
- Squelch
- Calibrator 100 kHz.
- Semi-Modular
- AVC/MVC
- Spinner Knobs
- Line Out 600 ohms
- NL
- IF Output Jack

Specifications:

Coverage 1500 - 30100 kHz
Selectivity 6/3/1/.3 kHz -6dB.
Sensitivity <.3µV CW
Image Rej >80dB
Audio Out 1 W 5 ohms
Modes AM/SSB/CW
Stability 20 Hz over 24 hours
IF 1.3 kHz-1.4 MHz, 370, 30 kHz
Antenna Input . SO239
Environment ...

Circuit Complement:

(3) EF93, (5) ECH81 and (8) E88CC. It is interesting to note that only three types of tubes used in the E 311A.

Accessories:

FSE30 FSK Adapter FAX Adapter LF Converter 10-1500 kHz

Comments:

Ranges: 1.5-3.4, 3.4-7.5, 7.5-15, 15-22.5 and 22.5-30.1 MHz. An incredibly accurate receiver that uses an interesting and unique mixture of analog and digital indicators. Readout to 100 Hz is supported. The tuning scale has an effective length of 935 feet (285 meters). The cord exiting from the lower left is the AC power cord. The E311A has no rear panel connections.

Made In: Germany 1959-1961

Voltages: 110/125/220VAC
40-60 Hz. 70W

Readout: Analog Lin. for MHz and 100 kHz, then Digital Mech. for 10 kHz and 1 kHz, then Vertical Analog Lin. for 100 Hz.

Physical: 18.75x11.7x15.375" 55 Lbs
475x295x390m 26 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	\$7500A	\$650-750
Rating:	⑥	⑥



E403

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- AGC
- IF Out Jack
- S-Meter
- BFO
- AFC
- NB
- Speaker
- Notch Filter
- Rack Handles
- Remote Bus
- Carry Handles

Specifications:

Coverage 10 - 30000 kHz
Selectivity 6 Position
Sensitivity <1µV CW 10 dB S/N
Freq. Drift <5x10⁻⁸/month
Antenna Input 50 ohms

Modes AM/SSB/CW/FM/RTTY
Image Rej >80 dB
IF Rejection >80 dB
Enviroment -25 to +45° C. 95% Humid.

Accessories:

Rack Mount Notch Filter / AFC N403 Remote Controller
ISB Module

Comments:

The E403 may be tuned in steps of 10, 100 Hz or 1 kHz by the rotary knob or via the decade switches. All functions are retained by core memory when the AC power source fails.

Made In: Germany 1978-1988

Voltages: 100/125/220/240 VAC
45-100 Hz 140-160W

Readout: **00000.01** Digital Nixie

Physical: ?

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



E 410

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- AGC (3 Pos.)
- RF Gain
- Speaker
- Rack Handles

Specifications:

Coverage 70 - 30000 kHz
Selectivity 6/3/1.5/1.3 kHz -6dB.
Sensitivity <.5µV CW 10 dB S/N
Image Rej >60 dB

Modes AM/SSB/CW
IF 1.3-1.4 MHz, 370, 30 kHz
Enviroment -25 to +55° C. 95% Humid.

Accessories:

FSW401 Demod Option

Comments:

Ranges: .069-.155, .15-.335, .33-.74, .73-1.63, 1.6-3.5, 3.5-7.5, 7.5-15, 15-22.5 and 22.5-30 MHz. The Siemens E 410 is vailable with two different VFOs. One VFO selects the 10 KHz, 1 KHz and 100 Hz positions via ten position BCD switches and then provides a knob for 100 Hz tuning. The other VFO has a mechanical digital readout for the 10 kHz and 1 kHz positions and tick marks for the 100 Hz positions plus a tuning knob for fine tuning.

Made In: Germany 1979-1981

Voltages: 110-240VAC 60W
or 24 VDC 30W

Readout: See Comments.

Physical: 17.5x7x17.3" 39.7 Lbs
445x177x440mm 18 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	\$3000A	\$800-870
Rating:	⑥	⑥

The Danish company **Skandinavisk Teleindustri Skanti** produces a broad line of maritime, commercial and military communications products.

Skanti also produced models sold under the Debeg label.

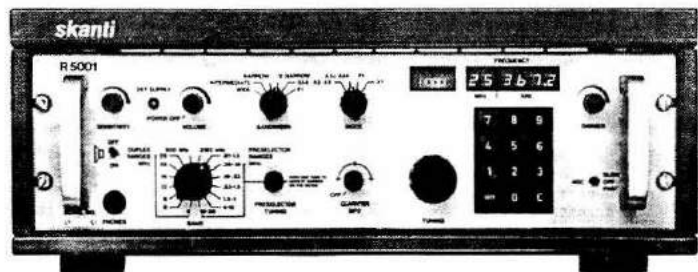
Although not shown in this edition, Skanti currently offers two H.F. receivers; the R8000 and R8003. Both cover from 10 to 30000 kHz. The R8003 features 399 memories, 40 scan programs and a remote control head.

Skandinavisk Teleindustri Skanti
Kirke Vaelosevej 34
DK-3500 Vaerloese,
Denmark



R5001

General Coverage Communications Receiver
Double (?) Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Keypad
- AGC OFF/SLO/FST
- RF Gain
- BFO ± 2 kHz
- Rack Handles
- 500/2182 kHz Presets
- Preselector
- Dimmer
- Speaker Switch
- Line Out 600 ohms
- Attenuator
- Mute Line
- Side-tone Input

Specifications:

Coverage 10 - 30000 kHz Modes AM/SSB/MCW/CW/RTTY
Selectivity 4/2.7/1.2/.5/.4/.1kHz -6dB. Sensitivity $< .5\mu V$ 4-30 MHz SSB
Audio Out 4 W 4 ohms Antenna Input . 50 ohm

Accessories:

Cabinet (shown)

Comments:

The R-5001 Version S-1 has 11.2 MHz External master Osc. Input. Version S-2 does not. This receiver has seven duplex filters for the major H.F. maritime bands. These are used to filter-out duplex transmitter frequencies on maritime phone calls. The Duplex Ranges are selected off the other half of the rotary preselector knob and are labeled 4, 6, 8, 12, 16, 22 and 25 MHz. The associated frequencies are: 4355-4445, 6500-6596, 8710-8840, 13100-13350, 17230-17830, 22570-23430 and 25300-26300 kHz. This receiver is designed for maritime use. It is configured to be a main receiver. The R-5001 fits a standard 19 inch rack, or may be used with the optional cabinet (shown).

Variants: An OEM version was produced for Debeg and sold as the **DEBEG 7204**.

Made In: Denmark

Voltages: 100/115/120 or 220/230/
240 VAC 45W or 24 VDC

Readout: **00000.1** Digital LED

Physical: Rack Version:
19x5.2x15.3" 33 Lbs.
482x132x390mm 15.2 kg

Status: Active Manufacturer
Active Model (?)

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

As one of the top three trademarks recognized worldwide, the Sony Corporation needs little introduction. Sony makes top drawer products in every aspect of consumer electronics. Sony enjoys annual sales of \$45 billion.

Sony has been an established leader in the production of portable worldband radios for two decades. Although it has been ten years since Sony offered a tabletop shortwave radio, their offering of portables is the most extensive and most respected in the world.

Their last table model, the ICF-6800W produced over 15 years ago, still has a faithful following among those who enjoy music on shortwave. The last production version (the so-called "orange" variant) is seldom seen on the used market and usually sells quickly.

Sony Corporation
P.O. Box 10
Tokyo 149, Japan

Sony Consumer Products Co.
Sony Dr.
Park Ridge, NJ 07656

SONY®

CRF-V21

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- Mini Ear Jack
- Active Antenna
- Speaker 4"
- Record Jack
- AF Filter
- S-Indicator
- Dial Lamp
- Battery Check
- Scan/Sweep
- Thermal Printer
- 350 Alpha Mems.
- AFC (FM)
- Carry Handle
- Keypad
- Speaker 2.75"
- RTTY/FAX Demod.
- Spectrum Display
- LCD Contrast Adj.
- Clock/Timer 8 Event
- Attenuator -30 dB

Specifications:

Coverage9 - 30000 kHz¹ +FM
Selectivity6/3.5/2.7/14 kHz -6dB.
Sensitivity<.17µV 6dB S/N 2-30 MHz
Image Rej.....>70 dB

Modes AM/USB/LSB-CW/FM/RTTY/FAX
IF Reject > 80 dB
IFs 55.845 MHz, 455 kHz²
Antenna Input . TNC to Active Antenna

Accessories:

AN-P1200 GOES Satellite Antenna

Comments:

² 10.7 MHz IF for FM/SAT. This technology show piece model is best known for its built-in spectrum display and RTTY/FAX decoding. RTTY Baudot: 60/66/75/100 WPM. ASCII: 110/200/300/600 bps. FAX: 60/90/120/240 RPM, 576/288 IOC. Direct GOES satellite reception with optional AN-P1200 antenna. The thermal printer provides hardcopy of RTTY, FAX or GOES receptions. It can also print the LCD display contents including the spectrum display. The width of the spectrum display may be defined by the user. The receiver will then draw the display in near real-time. Officially classified as a portable but it is seldom seen at the beach.

Made In: Japan 1989-1992

Voltages: 110/120/220/240 VAC
or 6 VDC Nicad Pak
Requires 2 AA cells for CPU

Readout: **00000.1** Digital LCD

Physical: 16.25x11.25x6.75 21 Lbs.
412x285x169mm 9.5 kg

Status: Active Manufacturer
Inactive Model

Rarity: Scarce
Reviews: *Passport* 1990-1993
WRTH 1988, 1990

	New	Used
Price:	\$3500-5100	\$600-720
Rating:	★★★	★★★

SONY®

ICF-6700W

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head Jack
- Mini Ear Jack
- Speaker 4"
- Record Jack
- Time Chart
- S/Batt.-Meter
- Dial Light
- Battery Check
- Timer Jack
- MPX Out Jack
- Bass
- AFC (FM)
- Carry Strap
- RF Gain
- Carry Handle
- Treble
- Preselector
- Telescopic Whip
- Ferrite MW Antenna

Specifications:

Coverage530 - 30000 kHz¹ +FM
Selectivity10/4 kHz -6dB.
Sensitivity<.63μV 6dB S/N
Audio1W 8 ohms

Modes AM/USB/LSB-CW
IFs 10.700 MHz, 455 kHz
Antenna Input . SO239 and Terminals

Circuit Complement:

5 FETs, 32 transistors and 19 diodes.

Accessories:

DCC-130 Car Battery Cord

Comments:

Ranges: .53-1.605, 1.6-10, 11.5-20, 20-30 MHz and 87.5-108 MHz FM. ¹There is a reception gap from 10400 to 11400 kHz (as a result of the 10.700 MHz 1st IF). The IF filters leave something to be desired.

Variants:

Model ICF-6700L covers longwave also.

Made In: Japan 1978-1980

Voltages: 110/120/220/240 VAC
50/60 Hz or six D cells.

Readout: **00001.** Digital LED

Physical: 18x7.5x9.25" 12 Lbs.
459x190x235mm 4.5 kg

Status: Active Manufacturer
Inactive Model

Rarity: Common

Reviews: *WRTH* 1980
Passport 1987

	New	Used
Price:	\$365-440	\$160-210
Rating:	★★★	★★★

SONY®

ICF-6800W

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head Jack
- Mini Ear Jack
- Speaker 4"
- Record Jack
- Time Chart
- S-Meter
- Dial Light
- Battery Check
- Timer Jack
- Memo Light
- Bass
- AFC (FM)
- Carry Strap
- RF Gain
- Carry Handle
- Treble
- Preselector
- Telescopic Whip
- Ferrite MW Antenna

Specifications:

Coverage530 - 30000 kHz +FM
Selectivity9/4 kHz -6dB.
Sensitivity<.63μV 6dB S/N
Image Rej>50 to 60 dB SW

Modes AM/USB/LSB-CW
IFs 19.055 MHz, 455 kHz²
Antenna Input . SO-239 and Terminals.

Circuit Complement:

7 Integrated circuits, 57 transistors and 10 FETs.

Accessories:

DCC-120 Car Battery Cord

Comments: This receiver has a dedicated following among shortwave content listeners who appreciate the radio's excellent fidelity. Not a fabulous DXing machine but one of best sounding communications receivers ever built. ² 10.7 MHz IF for FM

Variants: The ICF-6800W Orange is later production (after serial number 30000) with improvements. Orange ink was used on the front panel for the model's name. This version boasts tighter IF bandwidths and adds an RF attenuator (on the back of the set). This model sold new for \$700 in 1982 and is worth \$400+ used. This variant is sometimes referred to as the ICF-6800WA.

Made In: Japan 1980-1983

Voltages: 110/120/220/240 VAC
50/60 Hz or six D cells

Readout: **00001.** Digital LED

Physical: 18x7.5x9.25" 12 Lbs.
460x190x235mm 5.4 kg

Status: Active Manufacturer
Inactive Model

Rarity: Scarce

Reviews: *WRTH* 1980-1983
Passport 1987

	New	Used
Price:	\$539-650	\$270-360
Rating:	★★★★★	★★★★★

65 Squires-Sanders

The **Squires-Sanders** company was a leading American manufacturer of quality communications equipment in the 1960's.

Clegg Laboratories of Mt. Tabor, New Jersey was a division of Squires & Sanders. They were a respected manufacturer of VHF amateur transmitters in the mid 1960's. In the late 1960's Squires-Sanders also produced high end CB radio equipment.

The SS-IBS is highly collectable and especially prized if found with the SS-1V panoramic display scope. The SS-1V has a strange sort of spectrum display that shows the entire 500 kHz band with an arrow moving as you change frequency.

Squires-Sanders, Inc.

475 Watchung Ave.

Watchung, NJ

1963-1964

Squires-Sanders, Inc.

Martinsville Road & Liberty Corners

Millington, NJ

1968



Squires-Sanders, Inc.

SS-IBS

Shortwave Broadcast Communications Receiver

Double Conversion Superheterodyne. 13 Tubes plus Semiconductors.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- S-Meter
- BFO
- Noise Limiter
- Antenna Trimmer
- AGC SLO/FST/OFF
- Calibrator 100 kHz
- Motor Driven Tuning

Specifications:

Coverage SWBC. See Comments. Modes AM/LSB/USB (CW)
 Selectivity 8/5/2.5 kHz Stability <100 Hz within 1 hour
 Sensitivity <.5µV (1µV @7MHz). IF Rejection 60 dB
 Image Ratio ... 60 dB Antenna Input . BNC
 Audio Out 1 W 10% distortion Freq. Accuracy 1 kHz.


Accessories: SS-1RS Speaker SS-1V Bandscope
 Rack Mount Kit Antenna Matcher SS-1S Noise Silencer

Comments: Coverage: 3.5-4, 5.9-6.4, 7-7.5, 9.5-10, 11.5-12, 15-15.5, 17.5-18, 21.4-21.9 and 25.6-26.1 plus 5-5.5 and WWV 10 MHz. Frequency accuracy of 1 kHz is achieved with an odometer-type two digit display used in conjunction with the analog dial. Two buttons under the main knob provide motor assisted tuning. A highly advanced receiver designed for commercial and broadcast applications. Rarely seen in the used market. The optional SS-1V (shown right) is very scarce.



Made In: United States 1963-1967

Voltages: 115/230 AC 50/60 Hz
 55 W

Readout:  Analog Lin. & Mech. Dig.

Physical: 16.25x7.75x13" 25 Lbs.
 413x197x330mm 11.3 kg

Status: Inactive Manufacturer
 Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	\$1200	\$700-850
Rating:	★★★★★	★★★★



SS-1R



Amateur Band Communications Receiver

Double Conversion Superheterodyne. 12 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- AGC SLO/FST/OFF
- RF Gain
- BFO
- Standby
- Calibrator 100 kHz
- Mute
- Noise Limiter
- Dial Lamp
- Motor Driven Tuning

Specifications:

Coverage Ham. See Comments
Selectivity 5/2.5/.5 kHz
Sensitivity <.5 μ V (1 μ V @7MHz).
Image Ratio ... 60 dB
Audio Out 1 W 10% distortion
Modes AM/LSB/USB/CW
Stability <100 Hz within 1 hour
IF Rejection 60 dB
Antenna Input , BNC 52 ohm
Freq. Accuracy 1 kHz.

Accessories:

SS-1RS Speaker SS-1V Bandscope SS-1S Noise Silencer
Rack Mount Kit

Comments:

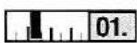
Supplied coverage: 3.5-4, 7-7.5, 14-14.5, 21-21.5 and 28.5-29 plus 5-5.5 and WWV 10 & WWV 15 MHz. Optional crystal positions provide for full 10 meter coverage plus two 500 kHz blocks. Frequency accuracy of 1 kHz is achieved through an odometer type two digit display used in conjunction with the linear analog dial. Matches the SS-1T Transmitter. Rarely seen in the used market. [¥800,000].

Variants:

The **SS-1R 701 Series** started in 1966 featured .25 μ V sensitivity, improved stability, and product detector plus extended 10 meter reception.

Made In: United States 1963-1967

Voltages: 115/230 AC 50/60 Hz
55 W

Readout:  Analog Lin.
& Mech. Dig.

Physical: 16.25x7.75x13" 25 Lbs.
413x197x330mm 11.3 kg

Status: Inactive Manufacturer
Discontinued Model

Rarity: Very Scarce

Reviews: QST May 1964

	New	Used
Price:	\$895-995	\$550-750
Rating:	★★★★	★★★★

66 Standard

The **Standard Radio** is a leading supplier of amateur radio equipment in Japan. Standard amateur gear is now also distributed in the United States.

Some Standard amateur radio products are manufactured by Marantz Japan, Inc.

Standard made a number of analog portable receivers but only one communications receiver, the C-6500. The C-6500 was not actively promoted in the United States.

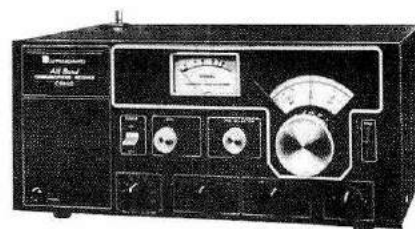
Standard Radio Company
Tokyo,
Japan



STANDARD

C-6500

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Attenuator
- Clarifier
- Dial Lamp
- Speaker
- Preselector
- Telescopic Whip
- Line Out Jack
- Tilt Legs
- Dial Lamp Switch

Specifications:

Coverage 500 - 30000 kHz Modes AM/USB/LSB-CW
Selectivity 7/4 kHz -6dB. Stability <500Hz after warm-up
Sensitivity5µV 1.5-30 MHz SSB
Audio Out 1.5 W

Circuit Complement:

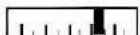
3 Integrated circuits, 16 transistors, 2 FETs and 30 diodes.

Comments:

An early example of the Wadley Loop system with an implementation similar to the FRG-7 (although the preselector is not calibrated). The C-6500 has 5 kHz tuning resolution. The Clarifier knob serves as a BFO for SSB and CW and as a fine tuning in the AM mode. The attenuator is activated by pulling out the volume knob. Ranges: .5-1.5, 1.5-5, 5-12 and 12-30 MHz. This radio was sold in Japan, Australia and Europe but was not actively marketed in the United States.

Made In: Japan 1977-1978

Voltages: 220 VAC or 12VDC
or 8 D cells

Readout:  Analog Lin.

Physical: 11.4x6.1x13.4" 14 Lbs.
290x156x340mm 6.4 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	\$350-450	\$150-160
Rating:	⑥	⑥

67 Sunair Electronics

Sunair Electronics is a Florida Corporation organized in 1956. It is engaged in the design, manufacture and sale of high frequency single sideband communications equipment utilized for long range voice and data communications in fixed station, airborne, mobile and marine applications.

Sunair products are marketed both domestically and internationally and are primarily intended for strategic military and other governmental applications. Sales are executed through systems engineering companies, worldwide manufacturers and direct to the United States government for foreign military assistance.

Sunair products employ advanced solid state designs and computer controlled networking capabilities. Their principal products include: H.F. transceiver, H.F. receivers, H.F. exciters, automatic antenna couplers, digital modems, frequency management systems and H.F. airborne transceivers.

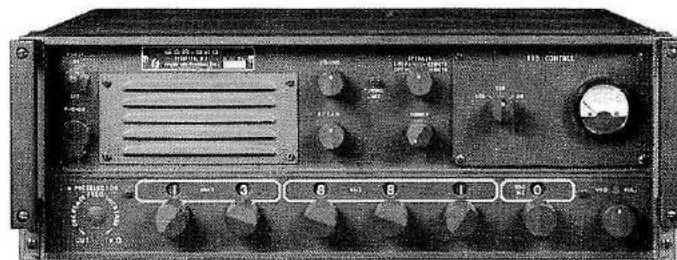
Sunair Electronics Inc.
3101 S.W. Third Av.
Fort Lauderdale, FL
33315

1956-1997



GSR-920

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Dimmer
- Modular Construction
- RF Gain
- Rack Handles
- AGC
- Ext. Speaker Jack
- Speaker
- Speaker Switch
- Line Out 600 ohm

Specifications:

Coverage 1600 - 29999 kHz
Selectivity 8/3.3 kHz -6dB.
Sensitivity <.5µV 10 dB S/N SSB
Image Rej >80 dB
Audio Out 2 W 8 ohms 10% dist.

Modes AM/USB/LSB
Stability 1 part 10⁻⁶
IF Rejection >70 dB
Antenna Input . 50 ohm
Environment ... -30° to +65° C.

Accessories:

DC module (for 12/24 VDC operation) ISB Option
TCXO 1 x 10⁻⁸

Comments:

This receiver employs decadic knob tuning. It is designed for the military market. This model is still available from Sunair and is also seen on the used market from time to time.

Mfg. In: United States 1979-1997

Voltages: 115/230 VAC 48-65 Hz
50W

Readout: Knobs

Physical: 18.25x6x18" 41 Lbs.
463x152x457mm 18.5 kg

Status: Active Manufacturer
Active Model

Rarity: Scarce

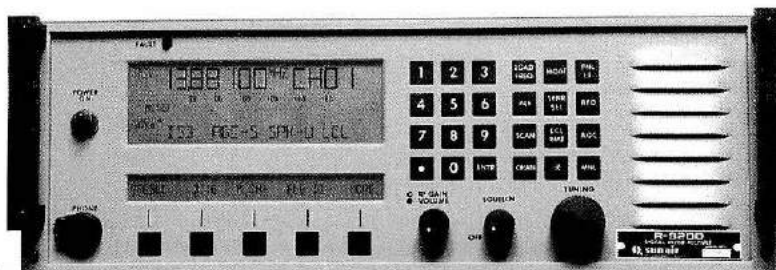
	New	Used
Price:	①	\$450-700
Rating:	⑤	⑥



Sunair

R-9200

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head Jack
- RF Gain
- Speaker
- Keypad
- Squelch
- Fault light
- Signal Indication
- Rack Handles
- 2nd IF Out Jack
- Scan
- Panel Lamp
- Panel Light Switch
- 128 Memories
- B.I.T.E
- BFO ± 1.99 kHz
- Sweep
- ISB
- Modular Construction
- Ext. Speaker Jack
- AGC FST/MED/SLO
- Freq. Std. I/O 5MHz
- RS232/422/485 Jack

Specifications:

Coverage 100 - 29999 kHz
Selectivity 6/3-3/5 kHz -6dB.
Sensitivity $< 5\mu V$ SSB
Image Rej > 80 dB
Audio Out 5W 8 ohms 5% dist.

Modes AM/USB/LSB/CW/ISB
Stability 1 part 10^{-6}
IF Rejection > 80 dB
Antenna Input . 50 ohm
Environment ... -30° to $+50^{\circ}C$. 100% Hum.

Accessories:

Remote Control
Clock

High Stability
F-9800 External Pre/Post Selector (shown below)

Filters

Comments:

The built-in test feature provides fault isolation to the module level with descriptive readout on the front panel and individual module indication. A sophisticated and robust receiver designed for military, marine and commercial applications.



Mfg. In: United States 1992-1997

Voltages: 115/230 VAC $\pm 15\%$
26 VDC $\pm 15\%$

Readout: **00000.01** Digital LCD

Physical: 17.83x6x17.66" 39 Lbs.
454x152x449mm 39 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑤

The **Swan Company** manufactured a large number of amateur H.F. and VHF transceivers in the 1960's and 1970's. They made only one receiver, the 600-R. The 600-R received only the amateur bands. It was designed to match the 600-T transmitter for those hams who still wished to operate "twins".

The 330 General Coverage Synthesizer was an announced accessory for the 600-R receiver. This would have given the receiver continuous coverage from 3 to 30 MHz. The author cannot confirm whether this option was ever manufactured.

Swan Electronics

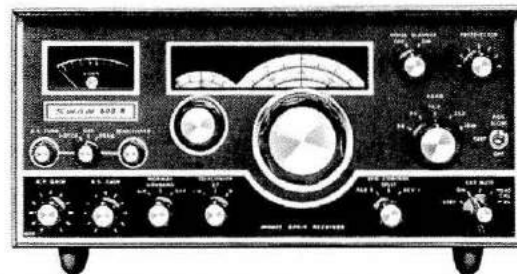
A Subsidiary of Cubic Corporation
305 Airport Rd.
Oceanside, CA 92054 1971-



600-R

Amateur Band Communications Receiver

Single Conversion Superheterodyne. 7 Tube plus Semiconductors.



Features:

- 1/4" Head. Jack
- S-Meter
- Preselector
- AGC FST/SLO/OFF
- RF Gain
- ANL
- Dial Lamp
- Calibrator 25/100 kHz
- Mute
- CW Sidetone
- Standby

Specifications:

CoverageHam 80-10 Meters Modes AM/SSB/CW/FSK
Selectivity2.7/_/_ kHz -6dB. IF 5500 kHz
Sensitivity<.25µV 10 dB S/N Image Rej.>50 dB

Circuit Complement:

7 Tubes, 8 transistors and 12 diodes.

Accessories:

Speaker NB-500 Noise Blanker ICAF-500 Audio Notch Filter
AM Filter 4 kHz 330 GC Synthesizer CW Filter 500 Hz

Comments:

Matches 600-T transmitter. Has built-in AC power supply. Features vernier tuning with virtually no backlash. Dial is calibrated every 2 kHz for 80 through 10 meters and every 5 kHz for 10 meters.

Variant:

Model **600-R Custom** includes the normally optional ICAF-500 Audio Notch Filter and NB-500 Noise Blanker \$546 new.

Made In: United States 1971-1974

Voltages: 120VAC
120 W

Readout:  Analog Lin.

Physical: 15x6.5x12" 23 Lbs
380x165x305mm 10.4 kg

Status: Active Manufacturer[^]
Inactive Model

Rarity: Scarce

Reviews: QST January 1973

	New	Used
Price:	\$395-440	\$60-120
Rating:	★★★	★★

69 Taiyo Musen

The **Taiyo Musen Company** manufactures communications products for the maritime industry. These direction finding receivers are commonly found on vessels of the Japanese fishing fleet. They are used for navigational purposes and for the location of transmitting fishing buoys.

Taiyo Musen is the world's leading manufacturing and supplier of radio direction finding equipment. Over a dozen models are in their current product line. Many of these models operate exclusively above 25 MHz.

Taiyo Musen Company Ltd.
20-7, 2-Chome, Ebisu-Nishi,
Shibuya-ku,
Tokyo 150, Japan



TAIYO MUSEN CO., LTD.

TD-A123

General Coverage Direction Finding Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- AGC
- RF Gain
- 300 Memories
- RS232 Port
- S-Indicator
- Clarifier
- Sweep
- Spinner Knob
- CRT DF Indicator
- Dimmer
- Standby
- AGC ON/OFF
- Keypad
- Scanning
- Up/Dn Tuning

Specifications:

Coverage 200 - 14000 kHz
Selectivity 2 kHz -6dB.
Min. Field S. ...3µV at 2 MHz.
Audio Out2 W 8 ohms

Modes AM/SSB/CW/MCW
D.F. Accuracy . ±1° at 1µV/m
Image Rej. >60 dB

Accessories:

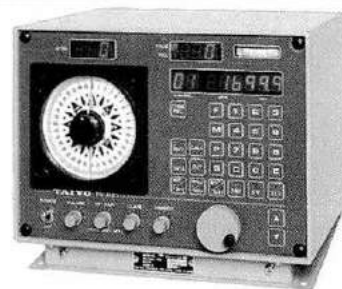
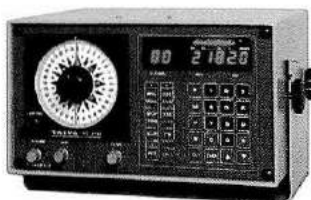
AC Power Supply Gyro Compass Interface

Comments:

This receiver is designed for MF and HF direction finding. It is configured for commercial fishing, merchant and government ships. It includes a 31 inch (.8 meter) aluminum alloy cross loop antenna and 5 conductor cable. Note limited HF coverage.

Variants:

The less expensive model **TD-A157** (shown right) covers only 200 to 5000 kHz and lacks a rotary tuning knob.



Made In: Japan 1995-1997

Voltages: 24 VDC

Readout: **00000.1** Digital LED

Physical: 11.8x9.65x9.5" 29 Lbs.
300x245x242mm 13 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



TAIYO MUSEN CO., LTD.

TD-C338HS

General Coverage Direction Finding Communications Receiver
Triple Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- 100 Memories
- Rack Handles
- S-Indicator
- Clarifier
- Sweep
- Spinner Knob
- CRT DF Indicator
- Dimmer
- Standby
- Keypad
- Scanning
- Up/Dn Tuning

Specifications:

Coverage 200 - 18000 kHz
Selectivity 2 kHz -6dB.
Min. Field S. ...2μV at 2 MHz.
Audio Out 2 W 4 ohms

Modes AM/SSB/CW/MCW
D.F. Accuracy. ±1° at 1μV/m
Image Rej. >60 dB
IF 65.7, .455, 104.5 MHz

Accessories:

Gyro Compass Interface

Comments:

This receiver is designed for MF and HF direction finding. It is configured for commercial fishing, merchant and government ships. It includes a 31 inch (.8 meter) aluminum alloy cross loop antenna and 7 conductor cable. This receiver is very tolerant of long cable runs to the antenna.



Made In: Japan 1984

Voltages: 100/110/115/220 VAC
50/60 Hz 60 W

Readout: **00000.1** Digital LED

Physical: 16.1x11.6x17.7" 65 Lbs.
410x295x450mm 29.5 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑤	⑥



TAIYO MUSEN CO., LTD.

TD-C338MKII

General Coverage Direction Finding Communications Receiver
Triple Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- RF Gain
- 100 Memories
- Rack Handles
- S-Indicator
- Clarifier
- Sweep
- Spinner Knob
- CRT DF Indicator
- Dimmer
- Standby
- AGC ON/OFF
- Keypad
- Scanning
- Up/Dn Tuning

Specifications:

Coverage 200 - 30000 kHz
Selectivity 2 kHz -6dB.
Min. Field S. ...2μV at 2 MHz.
Audio Out 2 W 8 ohms

Modes AM/SSB/CW/MCW
D.F. Accuracy. ±1° at 1μV/m
Image Rej. >60 dB
IF 65.7, .455, 104.5 MHz

Accessories:

Gyro Compass Interface

Comments:

This is an updated version of the TD-C338HS. Note that the receiver coverage is up to 30 MHz. The direction finding capability, however, is accurate up to only 16 MHz. The 400 memories are grouped into four banks of one hundred each.



Made In: Japan 1994-1997

Voltages: 100/110/115/220 VAC
50/60 Hz 50 W

Readout: **00000.1** Digital LED

Physical: 16.1x11.6x17.7" 65 Lbs.
410x295x450mm 29.5 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

70 Technical Material Corp.

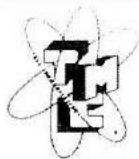
The **Technical Material Corporation**, or TMC for short, is recognized in over 128 countries worldwide for the quality of its design in RF transmissions systems. For fifty years TMC has created innovative products designed to make long range communications more efficient.

The TMC engineering and manufacturing sites are located just north of New York City. Field offices are located worldwide.

The Company was founded by Ray H. de Pasquale. The current President is Neil H. de Pasquale. TMC's more recent products include: receiver multicouplers, balun couplers, antenna tuners, antenna dummy loads, pre/postselectors and other communications products.

Although TMC no longer produces receivers, they remain in business to service their large international base of installed equipment.

Technical Material Corporation
700 Fenimore Rd.
Mamaroneck, NY 10543 1957-1997



TECHNICAL MATERIAL

GPR-90 (R-825/URR)

General Coverage Communications Receiver
Double Conversion Superheterodyne. 15 Tubes.



Features:

- 1/4" Head. Jack
- RF Gain
- IF Out
- S-Meter
- BFO
- Dial Locks (2)
- Antenna Trimmer
- Mute
- NL
- Bandsread
- Calibrator 100 kHz
- Audio Filter

Specifications:

Coverage 540 - 31000 kHz
Selectivity 6/2/1.5/1.5/2 kHz
Sensitivity <1μV (1.5-31 MHz).
Image Ratio >60 dB
IF 3995, 455 kHz

Modes AM/CW/MCW
Stability002 - .003 %
IF Rejection 85dB 455, 100dB 3.955
Audio Out 2 W 4/8/16/600 ohms

Circuit Complement:

6AB4 RF Amp, 6CB6 RF Amp, 6AU6 Mixer, 6AG5 Osc., 6AG5 BFO, 6BE6 Converter, (3) 6BA6 IF Amp, 6BA6 Buffer IF, 6AL5 Detector./ANL, 6V6 Audio, 0A2 Regulator and 5U4G Rectifier.

Accessories:

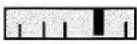
Speaker GPR-D Diversity GSB-1 SSB Adapter

Comments: Very early production units did not include the crystal calibrator. Single conversion below 3.2 MHz. Ranges: .54-1.4, 1.4-3.3, 3.2-5.6, 5.4-9.7, 9.4-17.8 and 17.3-31.5 MHz. Amateur bandsread: 1.8-2, 3.5-4, 7-7.3, 14-14.35, 21-21.45, 26.95-27.54 and 28-29.7 MHz. The GSB-1 SSB Adapter (shown right) was reviewed in *QST* March 1957.



Made In: United States 1955-1960

Voltages: 105-125 AC 50/60 Hz
90W

Readout:  Analog

Physical: 20x10x15" 52 Lbs.
508x254x381mm 23.6 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

Review: *QST* October 1955

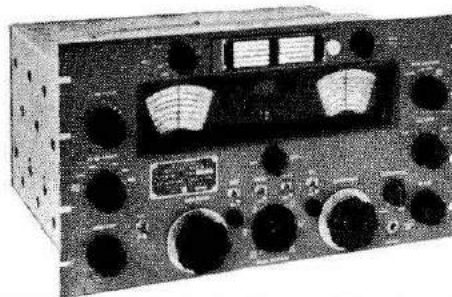
	New	Used
Price:	\$395-765	\$600-1000
Rating:	★★★★★	⑦



TECHNICAL MATERIAL

GPR-90RX (R-840/URR)

General Coverage Communications Receiver
Double Conversion Superheterodyne. 17 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- 10 Crystal Positions
- RF Gain
- BFO
- Phono Input
- Calibrator 100 kHz
- Dial Locks
- Bandsread
- Audio Filter
- Mute
- NL

Specifications:

Coverage 540 - 31500 kHz
Selectivity 6/2/1.5/1.5/2 kHz
Sensitivity <1μV (1.5-31 MHz).
Image Ratio ... >60 dB
Audio Out 2 W
Modes AM/CW/MCW
Stability002 - .003 %
IF Rejection 85dB 455, 100dB 3.955
Environment ... 0° to 50° C. 90% Humid.
Antenna Input . 50/300 ohm Terminals

Circuit Complement:


6AB4 1st RF Amp, 6CB6 2nd RF Amp, 6AU6 1st Converter, 6BE6 2nd Converter & Osc., 6BA6 Buffer IF, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6BA6 3rd IF Amp, 6AL5 Detector/ANL, 12AX7 AVC/1st Audio Amp, 6V6 2nd Audio Amp, 6AG5 Osc., 6AG5 BFO, 5U4G Rectifier, 0A2 Volt.Reg., 6CB6 Cal. Osc. and 6AG5 Cystal Osc. Amp.

Accessories: Speaker GPR-D Diversity

Comments: The same as the GPR-90 but with ten adjustable fixed crystal positions available from the front panel of the receiver plus a rear deck input for an external high stability control oscillator or synthesizer. Ranges: .54-1.4, 1.4-3.3, 3.2-5.6, 5.4-9.6, 9.4-17.8 and 17.3-31.5 MHz. Amateur bandsread: 1.8-2, 3.5-4, 7-7.3, 14-14.35, 21-21.45, 26.95-27.54 and 28-29.7 MHz. Promoted as suitable for SSB when crystal (fixed) positions used.

Made In: United States 1957-1960

Voltages: 105-125 AC 50/60 Hz
90W

Readout:  Analog

Physical: 19x10.5x15" 63 Lbs.
483x266x381mm 28.5kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

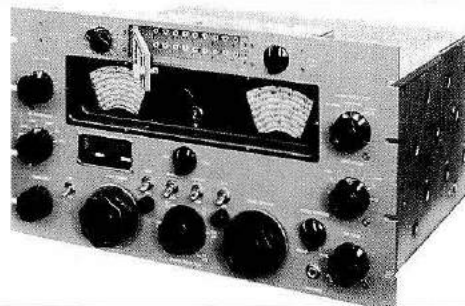
	New	Used
Price:	①	\$660-1100
Rating:	⑥	⑦



TECHNICAL MATERIAL

GPR-90RXD

General Coverage Communications Receiver
Double Conversion Superheterodyne. 17 Tubes.



Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- Bandsread
- RF Gain
- BFO
- Phono Input
- Calibrator 100 kHz
- Mute
- Standby
- IF Out Jack
- 10 Crystal Sockets
- NL
- Ext. IFO In Jack
- Ext. BFO In Jack
- Ext. HFO In Jack
- Audio Filter

Specifications:

Coverage 540 - 31500 kHz
Selectivity 6/2/1.5/1.5/25 kHz
Sensitivity <1μV (1.7-31.5 MHz).
Image Ratio ... 85 dB
Audio Out 2 W 4/8/16 ohm
Modes AM/CW/MCW
Stability002 - .003%
IF Rejection 85dB 455, 100dB 3.955
Noise Factor ... > 6 dB
Antenna Input . 75/300 ohm Terminals

Circuit Complement:

6DC6 1st RF Amp, 6BA6 2nd RF Amp, 6AU6 1st Converter, 6BE6 2nd Converter & Osc, 6BA6 Buffer, 6BA6 1st IF Amp, 6BA6 2nd IF Amp, 6BA6 3rd IF Amp, 6AL5 NL, 12AX7 Audio Amp, 6V6 Audio Amp, 6AG5 Osc, 6AG5 BFO, 5U4G Rectifier, 0A2 Voltage Reg, 6CB6 Calibrator and 6AG5 Crystal Osc. Amp.

Accessories: VOX-5 Diversity
MSR-4 SSB Adptr. MSR-5 SSB Adptr. CFA FSK Converter

Comments: Designed for 19" rack mounting. Bandsread: 1.8-2, 3.5-4, 7-7.3, 14-14.35, 21-21.45, 26.95-27.54 and 28-29.7 MHz. Similar to the GPR-90 but includes the ten crystal positions and connection for external oscillator.

Made In: United States 1962-1971

Voltages: 115/230 AC 50/60 Hz
90 W

Readout:  Analog

Physical: 19x10.5x14" 63 Lbs.
483x266x355mm 28.5kg

Status: Active Manufacturer
Discontinued Model

Rarity: Very Scarce

	New	Used
Price:	①	\$700-1050
Rating:	⑥	⑦



TECHNICAL MATERIAL

GPR-91RXD



General Coverage Communications Receiver

Double Conversion Superheterodyne. 17 Tubes.

Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- Bandsread
- RF Gain
- BFO
- IF Out Jack
- Calibrator 100 kHz
- Mute Line
- Standby
- Phono In Jack
- 10 Crystal Sockets
- Ext. IFO In Jack
- Ext. BFO In Jack
- Ext. HFO In Jack
- Audio Filter
- NL

Specifications:

Coverage 540 - 31500 kHz
Selectivity 15/2/1.5/1.5/25 kHz
Sensitivity <1μV (1.4-31.5 MHz)
Image Ratio ... 85 dB
Audio Out 2 W
Modes AM/CW
Stability002 - .003%
IF Rejection 85 db 455, 100 db 3.955
Noise Factor ... > 6 dB
Environment ... 0° to 50° C. 90% Humid.

Circuit Complement:

Same tube complement as the GPR-90RXD.

Accessories:

MSR-4 SSB Adptr. MSR-5 SSB Adptr. CFA FSK Converter
VOX-5 Diversity

Comments:

Similar to the GPR-90RXD, but with a 15 kHz bandpass position for ISB reception of 4 voice channels or up to 64 teletype channels. Designed for 19" rack mounting. Bands: .54-1.4, 1.4-3.3, 3.2-5.6, 5.4-9.6, 9.4-17.8 and 17.3-31.5 MHz. Amateur bandsread: 1.8-2, 3.5-4, 7-7.3, 14-14.35, 21-21.45, 26.95-27.54 and 28-29.7 MHz.

Made In: United States 1962-1971

Voltages: 115/230 AC 50/60 Hz
90 W

Readout:  Analog

Physical: 19x10.5x14" 63 Lbs.
483x267x356mm 28.6 kg

Status: Active Manufacturer
Discontinued Model

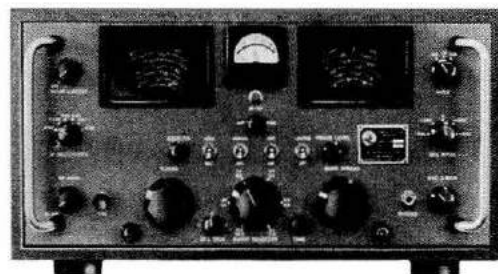
Rarity: Very Scarce

	New	Used
Price:	①	\$750-1100
Rating:	⑥	⑦



TECHNICAL MATERIAL

GPR-92



General Coverage Communications Receiver

Double Conversion Superheterodyne. 18 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- S-Meter
- Antenna Trimmer
- Bandsread
- RF Gain
- BFO
- Calibrator 100 kHz
- NL
- Mute
- Rack Handles
- Squelch

Specifications:

Coverage 540 - 32000 kHz
Selectivity 6/2/1.5/1.5/25 kHz
Modes AM/CW/SSB/ISB/FSK
Sensitivity <1μV 15 dB S/N

Accessories:

TRX-1 Diversity

Comments:

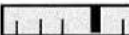
Designed for 19" rack mounting. This is a highly collectable model. Some sources report that only 115 of these units were manufactured. Other sources say between 200 and 300. In any event, the number is low and the used price for this receiver continues to climb. Asking prices as high as \$3000 have been noted. The author would like to hear from a lucky GPR-92 owner.

Variants:

Model **GPR-92C** (shown) features cabinet. Model **GPR-92S** features slide-out rack mount.

Made In: United States 1963-1966

Voltages: 115/230 AC 50/60 Hz
90 W

Readout:  Analog

Physical: 19x8.75x17" 65 Lbs.

Status: Active Manufacturer
Discontinued Model

Rarity: Extremely Scarce

	New	Used
Price:	\$1500	\$1400-2600
Rating:	★★★★★	⑦

71 Telefunken

The **Telefunken Company** is now a part of the Daimler-Benz company, the largest company in Germany.

Telefunken is a long respected producer of quality communications equipment. The models E103 and E104 are revered like Collins "boat anchors" are in the United States. The author would like to solicit assistance from our German readers so that these models may be included in future editions.

Telefunken currently markets two sophisticated (and costly) receivers to the worldwide commercial, military market.

Daimler-Benz Aerospace AG
Sensorsysteme
89070 Ulm, Germany

TELEFUNKEN



Daimler-Benz Aerospace

E1800A

General Coverage Communications Receiver
Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- Line Out Jack
- Scan & Sweep
- 100 Memories
- S/AF-Indicator
- AGC
- Memories
- Ext. Spkr Jack
- Speaker
- Spinner Knob
- PBS
- BFO
- Rack Handles
- Keypad
- IF Out Jack
- B.I.T.E.
- Notch
- RS232/423/IEEE488
- Speaker Switch
- Digital IF Out Jack

Specifications:

Coverage3 - 30000 kHz Modes AM/SSB/CW/FAX/FM/RTTY
Selectivity 42 bandwidths

Comments:

1 Hz tuning resolution and display resolution. Note the very low frequency coverage of this receiver. The E1800A tunes down to 300 Hz (.3 kHz).

Variants:

Model **E1800/3** (1987) covers 10 to 30000 kHz and is the general purpose version of the more advanced E1800A. The E1800/3 has a few more buttons, but looks very similar to the E1800A. Model **E1900** is a VHF/UHF version of this receiver covering 20 - 500 MHz.

Made In: Germany 1993-1997

Voltages: 115/230 VAC
50/60 Hz

Readout: **00000.001** Digital LED

Physical: 19" wide 33 Lbs
483mm wide 15 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	\$33,000	⑤
Rating:	⑥	⑥

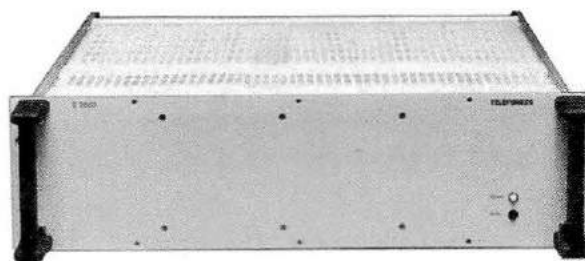
TELEFUNKEN



Daimler-Benz Aerospace

E2000LH1

General Coverage Communications Receiver
Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Line Out Jack
- Scan & Sweep
- PBS ± 5 kHz
- AGC
- Ext. Spkr Jack
- IF Out Jack
- B.I.T.E.
- Notch
- BFO ± 5 kHz
- Mute
- 1000 Memories
- RS232/RS485
- Rack Handles
- DSP

Specifications:

Coverage3 - 30000 kHz Modes AM/SSB/CW/FAX/FM/RTTY
Sensitivity <25 μ V CW 1-30 MHz
Selectivity 43 bandwidths .1-10 kHz

Accessories:

UD2000 DSP Demod VE2000 Recognition TH2000 LAN Interface
AM2000 Audio Mixer TCXO Option (2x10⁻⁸) Windows™ Control Pgm.

Comments:

Note the very low frequency coverage of this receiver. The E2000LH1 tunes down to 300 Hz (.3 kHz). Designed exclusively for computer control. 1 Hz tuning resolution is provided.

Variants:

Model **E2000LH3** is a three receiver version of the E2000LH1, still contained in the same 19 inch rack space. Model **E2000LH5** is a five channel receiver version.

Made In: Germany 1995-1997

Voltages: 115/230 VAC $\pm 15\%$
50/60 Hz

Readout:  Digital on PC

Physical: 19" wide 33 Lbs
483mm wide 15 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	\$18,000	⑤
Rating:	⑥	⑥

The **TEN-TEC** name was coined from Tennessee Technology. The company was founded in 1968 with the goal of designing and manufacturing amateur radio equipment. The first products were simple, low cost QRP (low power) transceivers. The more advanced *Argonaut* QRP series was introduced in the early 1970's, staying in the product line with successive models until the early 1980's.

TEN-TEC pioneered solid state, no-tune 100 watt H.F. transceivers with the Triton II and IV in the mid 1970's. These early designs spawned development of 16 different H.F. amateur rigs over the next twenty years. TEN-TEC has produced linear amps for over 15 years. Most receiver hobbyists know TEN-TEC through their model RX-10 or RX-325 models. However, their most successful receiver is the RX-330A commercial, DSP model enjoying wide use in commercial and government markets. TEN-TEC currently offers two affordable "regen" shortwave radio kits.

Expanding several times, TEN-TEC currently has a 40,000 square foot plant with 100 employees. They are active in three businesses today. The largest division is the combined amateur, commercial and government electronics division. TEN-TEC has a tool and die division making molds for the die casting and plastic injection field. The third division makes standard and custom sheet metal for other manufacturers.

TEN-TEC, Inc.

Highway 411 East
Sevierville, TN 37862 1972-1996

TEN-TEC, Inc.

1185 Dolly Parton Pkwy.
Sevierville, TN 37862 1996-1997



315



Amateur Band Communications Receiver

Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Meter
- RF Gain
- Calibrator
- Mute Line
- Speaker
- Preselector
- Sidetone Input Jack
- Dial Lamp

Specifications:

Coverage Ham 80-10 Meters
Selectivity 2.5 kHz -6dB.
Sensitivity <.25µV

Modes CW/USB/LSB
Stability <100 Hz

Accessories:

Model 235 Audio CW Filter 300 Hz

Comments:

No AM mode. The tuning rate is approximately 25 kHz per revolution. The slide rule dial denotes band segments (0-5). The knob skirt reads kHz on a 0-100 scale. Dial accuracy is ±2.5 kHz.

Made In: United States 1972-1974

Voltages: 115 VAC 50/60 Hz

Readout:  Analog Lin.

Physical: 13x4.5x7"

Status: Active Manufacturer
Discontinued Model

Rarity: Scarce

Reviews: CQ February 1974

	New	Used
Price:	\$229	\$70-90
Rating:	★★★★	⑥

1253

Shortwave Communications Receiver Kit
Regenerative. Solid State.



Features:

- Head. Jack
- RF Gain
- Regen Tune
- Fine Tuning
- Speaker 3"
- Ext. Speaker Jack

Specifications:

Coverage See Comments. Modes AM/CW/SSB
Antenna Input Terminal

Circuit Complement:

A regenerative design with 3 integrated circuits and 5 transistors. Tuning and fine tuning is accomplished by varactor diodes.

Comments:

Ranges: Seven bands in the range of 1.8-2, 3.3-4.15 and 5.5-22 MHz. The rotary tuning knob is calibrated from 1 to 21 with additional calibration marks between each number. This 42 point scale is used in conjunction with charts in the Owner's Manual to interpolate the actual frequency. This kit takes three evenings to assemble. This is a very good looking set that is surprisingly stable.

Variants:

TEN-TEC also makes a smaller regenerative kit called the **1054** (shown to the right) which has 4 bands and sells for only \$24. The 1054, however, does not include a case or speaker.



Made In: United States 1996-1997

Voltages: 12 VDC or 8 C cells.

Readout: Indexed Scale 0-21

Physical: 6x3.75x6"
152x95x152mm

Status: Active Manufacturer
Active Model

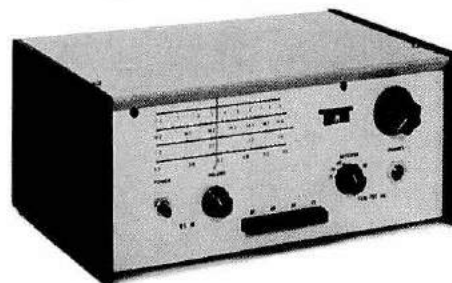
Rarity: Scarce

Reviews: NASWA November 1996

	New	Used
Price:	\$59	\$35
Rating:	⑨	⑨

RX-10

Amateur Band Communications Receiver
Single Conversion. Solid State.



Features:

- 1/4" Head. Jack
- Built-in code oscillator & sidetone monitor.

Specifications:

Coverage 80/40/20/15M Modes CW(USB/LSB)
Selectivity 2 kHz -6dB. Stability <100 Hz
Sensitivity <1μV Antenna Input . 50-70 ohm

Accessories:


None

Comments:

Ranges: 3.5-4, 7-7.3, 14-14.6 and 21-21.9 MHz. The RX-25 was designed primarily as a beginner's CW receiver. A single conversion synchrodyne circuit eliminates images and birdies usually found in low-priced receivers. SSB and AM reception are possible, but not ideal.

Made In: United States 1970-1973

Voltages: 115 VAC 50/60 Hz 1/8 Amp
or 12 VDC 35 ma

Readout:  Analog

Physical: 10.5x4.5x6.62" 2.25 Lbs.
267x114x168mm 1.1 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Scarce

Reviews: *Popular Electr.* May 1971
QST August 1971
CQ March 1971
Ham Radio June 1971

	New	Used
Price:	\$60	\$40-50
Rating:	★★★	⑦



RX-325



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- Mini Head. Jack
- S-Meter
- Dimmer
- Attenuator -15 dB
- Dial lock
- 25 Memories
- Memory Scan
- Memory Lock-out
- Sweep
- Keypad Entry
- Noise Blanker
- 12/24 Clock-Timer
- AGC FST/SLO
- Record Jack
- Record Activation
- Ext. Speaker Jack
- Display Test
- Two Tuning Speeds

Specifications:

Coverage 300 - 30000 kHz. Modes AM/LSB/USB
Selectivity 4/2.7/ kHz -6dB. Stability ± 200 Hz after 1 min.
Sensitivity $< 4\mu V$ 2-30 MHz CW IF Rejection > 60 dB
Audio Out 2W 10% distortion Image Reject .. > 60 dB
Accuracy ± 50 Hz Antenna Input . SO-239 & Terminals.

Accessories:

265 Speaker 266 SSB Filter 925 Battery Pack
267 Timer Relay

Comments:

Supplied with external AC wall supply. Memories store frequency only. Memories may be selectively locked-out. Three tuning steps: 50, 500 and 1000 Hz. The RX-325 was not a popular receiver because of its non-ergonomic design, marginal audio, RF-section problems and poor marketing. Not manufactured in large numbers (perhaps 200?), it now falls into the collector category.

Made In: United States 1986-1987

Voltages: 115 VAC or 13.8 VDC .5A
9V battery for memory

Readout: **00000.1** Digital Flors.

Physical: 9.5x3.25x7" 6 Lbs.
241x82x178mm 2.7 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Scarce

Reviews: *Passport* 1988
Monitoring Times Feb. 1986
Monitoring Times Jan. 1987

	New	Used
Price:	\$549-629	\$275-350
Rating:	★★	★



RX-330A



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- 1/4" Jack Stereo
- PS Status LEDs
- Attenuator -15 dB
- B.I.T.E.
- 100 Memories
- Preamp 10 dB
- AGC FST/MED/SLO/OFF
- RS-232 Port
- BFO ± 8 kHz
- Rack Handles
- Ext. Ref. In Jack
- IF Out Jack
- DSP IF
- Notch Filter
- Line Out 600 ohm (2)
- PBT
- Synchronous AM

Specifications:

Coverage 500 - 30000 kHz. Modes AM/LSB/USB/CW/FM/ISB
Selectivity See Comments. Stability ± 1 PPM per C°
IF 45.105 MHz, .455 kHz IF Rejection > 80 dB
Audio Out 600 Ohm Line Out Image Reject .. > 70 dB
Antenna Input BNC 50 ohm Environment ... 0 to +50°C 95% Humid

Accessories:

FM Squelch TCVCXO High Stability PBT CW/USB/LSB

Comments: The 1/4" stereo headphone jack is for ISB output. Will tune 0 - 500 kHz with reduced performance. Memories store: frequency, mode, bandwidth, etc. S-Meter values are communicated to the RS232 Port. Designed strictly for computer control and rack mounting. The sophisticated RX-330A has been well received by the military, commercial and maritime market. Bandwidths: 16000, 15200, 14400, 13600, 12800, 12000, 11200, 10400, 9600, 8800, 8000, 7600, 7200, 6800, 6400, 6000, 5600, 5200, 4800, 4400, 4000, 3800, 3600, 3400, 3200, 3000, 2800, 2600, 2400, 2200, 2000, 1900, 1800, 1700, 1600, 1500, 1400, 1300, 1200, 1100, 1000, 900, 800, 700, 600, 500, 450, 400, 350, 300, 250, 225, 200, 175, 150, 125, 100 Hz 3-dB.

Made In: United States 1995-1997

Voltages: 115/230 AC $\pm 15\%$
48-440 Hz 30W

Readout: **1 Hz.** Digital on PC

Physical: 19x1.75x20" 12 Lbs.
483x45x508 5.43 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable
Reviews: *QST*

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

73 Thomson-CSF

The **Thomson-CSF** company is one of Europe's largest supplier of commercial, broadcast and military electronics and communications systems.

Thomson-CSF's current line of TRC620 receivers (not shown) are designed to meet electronic counter measure threats, frequency hopping and burst transmissions. The Model TRC621 covers 300 kHz to 30 MHz.

Thomson-CSF

Telecommunications Division
66 rue du Fosse Blanc, Gerrevilliers
France 1979-1997



TRC241

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Indicator
- Keypad
- Modular Construction
- RF Gain
- Mute
- Rack Handles
- 40 Memories
- Speaker
- Scan
- Sweep

Specifications:

Coverage 100 - 30000 kHz
Sensitivity <.5µV CW
Environment ..0° to +55° C.
Modes AM/LSB/USB/CW/ISB
Stability 1x10⁻⁷

Accessories:

VLF Option 10-100 kHz

Comments:

Designed for military applications. Memories store frequency, mode, BFO, bandwidth, squelch, AGC and attenuator settings. May be operated remotely. Later production included 100 instead of 40 memories.

Variants:

Model **TRC243** is later production with a similar appearance except for the addition of a large manual tuning knob in the center of the radio. The model **TRC251** is a VLF version covering 10 to 200 kHz in 1 Hz steps in CW, FSK and MSK modes (1987). They were produced for the French Navy in an effort to improve communications with submarines.

Made In: France 1986-1997

Voltages: 110/127/220/240VAC ±10%
50/60 Hz

Readout: **00000.01** Digital LED

Physical: 19x4.6x18.3" 40 Lbs.
483x117x465mm 18 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

TRC394/A



General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Meter
- Keypad
- Modular Construction
- RF Gain
- Mute
- Rack Handles
- Two Tuning Rates

Specifications:

Coverage 400 - 30000 kHz	Modes AM/LSB/USB/CW
Selectivity 6/3-.3/.25 kHz -6dB.	Stability 1×10^{-7}
Sensitivity $<.25 \mu V$ CW	IF Rejection >80 dB
Image Rej >80 dB	Antenna Input . 50 ohm
Environment .. -20° to +55° C.	

Comments:

Designed for military applications.

Variants:

Model **TRC394/B** uses decadic rotary switches for frequency selection (100 Hz steps) and has 12 memories. The TRC394/B model also supports remote operation.

Made In: France 1986-1988

Voltages: 127-220 VAC 50/60 Hz or
24 VDC 2A

Readout: **00000.01** Digital LED

Physical: 19x5.2x15.75" 33 Lbs.
480x132x400mm 15 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

Trans World Communications produces an entire line of base transceivers, man-pack transceivers, amplifiers and other specialized communications equipment for the military sector.

The Trans World product line is popular with military and paramilitary concerns worldwide.

Trans World Communications
A Datron Company
304 Enterprise St.
Escondido, CA 92029

TRANSWORLD

TW100RX

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- Keypad
- Mute
- Speaker Switch
- S-Meter
- Speaker
- 100 Memories
- Memory Scan
- NB
- Squelch
- Atten. -12 dB
- Modular Construction
- Fine Tuning ± 125 Hz
- Line Out 600 ohms

Specifications:

- Coverage 200 - 30000 kHz
- Selectivity 2.7/.3 kHz -6dB.
- Sensitivity <.3 μ V 10 dB S+N
- Image Rej.....>80 dB
- Audio Out 4 W 3.2 ohms
- Fine Tune ± 125 Hz.
- Modes LSB/USB/CW
- Stability $\pm .0001\%$
- IF Rejection >80 dB
- IF 75 MHz, 1650 kHz
- Environment ... -30° to +55° C.
- Antenna Input . 50 or 800 ohms

Accessories:

AM mode is optional

Comments:

Tuning is by UP / DOWN buttons, keypad entry or memory recall. The TW100RX has excellent input protection (up to 100 W!).

Variants:

Rack mounted version (shown right).



Mfg. In: United States 1984-1997

Voltages: 115/230 VAC 50/60 Hz
or 13.6 VDC 600 ma

Readout: **00000.1** Digital

Physical: 13.5x.4.4x14" 15 Lbs.
345x107x355mm 6.8 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

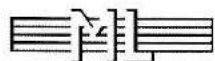
75 Videoton-Mechlabor

The company **Videoton-Mechlabor Development and Manufacturing Ltd.** of Budapest Hungary produces state-of-the-art, world class communications products for the international military market.

The REV-400 family of high frequency receivers offers tremendous sophistication in a very compact and robustly built package. The different members of this family can be mounted singly or double; in a rack, portable box or desktop cabinet configuration.

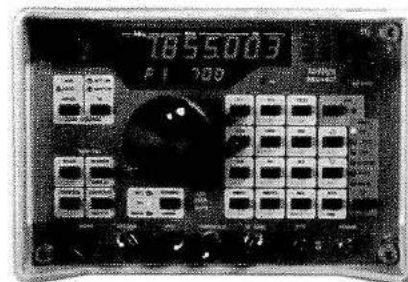
Videoton-Mechlabor Development and Manufacturing Ltd.
Városligeti fasor 25-27
H-1071 Budapest, Hungary

/// VIDEOTON-MECHLABOR Manufacturing & Development Ltd.



REV-401

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- BITE
- Preamp 9 dB
- ISB Outputs
- S-Indicator
- Keypad
- 100 Memories
- Scan
- Dial Lock
- FM/AM Video
- Speaker
- BFO ± 2.5 kHz
- AGC/MGC
- Sweep
- AFC
- Speaker Switch
- Attenuator -20 dB
- RS232 or IEC625
- Line Out 600 ohm
- 5 MHz Ref. I/O Jack

Specifications:

Coverage 200 - 30000 kHz
Selectivity 6/3/2/1.4/1/1.7/1.4/1 kHz¹
IF 72.2 MHz, 200, 8 kHz
Image Rej >100 dB
Audio Out 600 ohms 775 mV
3IP min +25 dBm w/ Pre.

Modes AM/LSB/USB/CW/FM/ISB
Stability ± 1 PPM
IF Rejection >100 dB
Environment ... -10° to +60° C.
Antenna Input . 50 ohms

Comments:

¹ Additionally, a 2.4 kHz filter for single sideband only is provided. The 100 memories store frequency, bandwidth, mode and threshold. Channel lockout is available. The BFO tunes in 10 Hz steps. Two REV-401 receivers may be rackmounted side by side in a standard 19 inch rack.

Made In: Hungary 1996-1997

Voltages: 220 VAC +10...-15% 40W
or 24 VDC $\pm 15\%$

Readout: **00000.001** Digital LED

Physical: 6.7x9.45x17" 33 Lbs.
170x240x430mm 15 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

76 Vigilant Communications

The current status of Vigilant Communications is unknown by the author. Recent letters to the company have been returned marked "Gone Away". It is unclear whether they went out of business or were acquired by another company or moved.

Vigilant Communications Ltd.
Unit 5, Pontiac Works
Fernbank Road
Ascot, Berks, SL5 8JH
England

Vigilant

SR 500

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute
- AGC
- S-Indicator
- Dimmer
- Line Out Jack
- Speaker Switch
- BFO ± 8 kHz
- Rack Handles
- Speaker
- Atten. -10/20 dB
- 6 Fixed Frequencies
- Speaker Out Jack

Specifications:

Coverage 50 - 30000 kHz
Selectivity 5.4/2 kHz -6dB.
Sensitivity <1 μ V CW/SSB
Image Rej >60 dB
Audio Out 1 W 8 ohms
BFO Range ... ± 8 kHz.

Modes AM/USB/CW
Stability 1 part in 10^7 per $^{\circ}$ C.
IF Rejection >70 dB
Ant. Jack BNC 50 ohm
Environment ... -15 $^{\circ}$ to +55 $^{\circ}$ C 95% Humid.

Accessories:

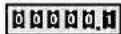
Cabinet (shown) FSK (SR521 only) Scan Fixed Channels Option

Comments: Frequency selection is by push-button decade switches. Modular construction. Designed for 19" rack mounting. Shown in optional cabinet. The 6 fixed channels are programmed by diode matrices. Automatic power switching from AC to DC if power failure.

Variants: Model **SR 501** \$2795 new, is the same but has both upper and lower sidebands for fixed communications. The SR 500 has only USB. Model **SR 502** is similar but with 6 memories instead of 6 fixed crystal positions. Model **SR 521** is similar to the SR 501, but with 10 Hz synthesizer tuning. \$4112 new.

Made In: England 1981-1983

Voltages: 105-125/210-250 VAC
40/60 Hz and 15-35 VDC

Readout:  Digital Mech.

Physical: 16.5x5.25x12" 22 Lbs.
420x133x330mm 10 Kg

Status: Active Manufacturer ?
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	\$2768-2968	⑤
Rating:	⑥	⑥

Vigilant

SR 511

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Indicator
- RF Gain
- Dimmer
- Mute
- Speaker
- Dial Lock
- APTR
- BFO ± 8 kHz
- Rack Handles
- Line Out Jack
- Speaker Switch
- Atten. -10/20 dB
- 6 Fixed Frequencies
- AGC
- Modular Construction

Specifications:

Coverage 50 - 30000 kHz
Selectivity 5.4/2 kHz -6dB.
Sensitivity <1 μ V CW/SSB
Image Rej >60 dB
Audio Out 1 W 8 ohms
BFO Range ... ± 8 kHz.
Modes AM/LSB/USB/CW/RTTY
Stability 1 part in 10⁷ per ° C.
IF Rejection >70 dB
IF 35.4 MHz nom., 455 kHz
Environment ... -15° to +55° C.
Ant. Jack BNC 50 ohm

Accessories:

Cabinet

Comments:

Modular construction. Designed for 19" rack mounting. Shown in optional cabinet. The 6 fixed channels are programmed by diode matrices.

Variants:

Model **SR 510** \$4530 new, is the same as the SR 511 but has only upper side band rather than upper and lower sideband.

Made In: England 1981-1982

Voltages: 105-125/210-250 VAC
40/60 Hz and 15-35 VDC

Readout: **00000.01** Digital LED

Physical: 16.5x5.25x12.5" 23 Lbs.
420x133x318mm 10.5 Kg

Status: Active Manufacturer ?
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	\$4795-4995	⑤
Rating:	⑥	⑥

Vigilant micon

SR 532

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Indicator
- RF Gain
- AGC
- Mute
- Speaker
- BITE
- Keypad
- BFO ± 8 kHz
- Rack Handles
- Speaker Switch
- Modular Construction
- 200 Memories
- Line Jack 600 ohms

Specifications:

Coverage 50 - 30000 kHz
Selectivity 5.4/2 kHz -6dB.
Sensitivity <.5 μ V 10 dB S/N CW
Image Rej >70 dB
Audio Out 1 W 8 ohms
BFO Range ... ± 8 kHz.
Modes AM/LSB/USB/CW/RTTY
Stability 1 part in 10⁷ per °C.
IF Rejection >70 dB
Environment ... -15° to +55°C 95% humid.
Ant. Jack BNC 50 ohm

Accessories:

Cabinet Dual Diversity Option FSK Option

Comments:

Modular construction. Designed for 19" rack mounting.

Variants:

Model **SR 530** is the same as the SR 532 but has only upper side band rather than upper and lower sideband. Model **SR 531** is the same as the SR 532, but with 100 Hz steps rather than 10 Hz steps.

Made In: England 1983-1988

Voltages: 110-125/220-240 VAC
47/60 Hz and 21-32 VDC

Readout: **00000.01** Digital LED

Physical: Cabinet Version:
20.25x7.3x16.5" 38 Lbs.
512x185x420mm 17.7 kg
Rack Version:
16.5x5.25x15.5" 27 Lbs
420x133x395mm 12.2 kg

Status: Active Manufacturer ?
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

77 Watkins-Johnson Company

The **Watkins-Johnson Company** has been a leader in high-technology products since 1957. This diversified corporation (NYSE: WJ) specializes in electronic products for the wireless telecommunications and defense industries. W-J is also a leading producer of semiconductors. Revenue in 1995 exceeded \$380 million.

The company, headquartered in Palo Alto, California, employs over 2200 people. Engineering and manufacturing facilities may also be found in Scotts Valley and San Jose, California as well as Gaithersburg, Maryland.

The Telecommunications Group in Gaithersburg employs 450 people. They specialize in highly capable designs that mesh both DSP and RF technologies. This unique ability is the cornerstone of the Group's well earned reputation as leading worldwide supplier of high-quality intercept receivers.

Most military and espionage agencies use Watkins-Johnson equipment. Although the main focus of W-J remains the military, government and commercial market, the recent introduction of the HF1000 into the radio hobbyist arena has met with excellent success.

Watkins-Johnson Company

Corporate Headquarters

3333 Hillview Ave.

Palo Alto, CA 94304

1957-1997

Watkins-Johnson Company

Telecommunications Group

700 Quince Orchard Rd.

Gaithersburg, MD 20878

1966-1997



WATKINS-JOHNSON

373A-2



General Coverage Communications Receiver

Triple Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- Rack Handles
- Monitor Output
- S-Meter
- Fine Tuning
- Det Level Out
- L.O. Output
- Rack Handles
- Predet. Out 455 k
- Center Tune Meter
- Atten.-10/20/30/40dB
- Predet. Out 21.4 MHz

Specifications:

- Coverage 500 - 30000 kHz
- Selectivity6/20/100/400 kHz
- Sensitivity <.5µV AM 6kHz 10 dB
- Image Rej >80 dB
- Modes AM/FM/CW
- IF Rejection >60 dB
- IF 60 MHz, 21.4 MHz, 455 kHz
- Antenna Input . 50 ohm (Two inputs)

Comments:

Frequency display is via two illuminated 26-inch steel tapes. Ranges: .5-10 and 10-30 MHz. Seperate antenna inputs are provided for each of the two ranges. This specialty receiver is suitable for RFI detection and predetection recording. A bandwidth of 2 MHz is maintained through the RF tuners and is available for viewing at a signal monitor output jack. 60 MHz IF only above 10 MHz. Designed for 19 inch rack mounting.

Made In: United States 1966-1984

Voltages: 115/230VAC 48-420 Hz
12W

Readout: Analog Lin.

Physical: 19x3.5x18" 25 Lbs
483x89x457mm 11.3 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑥
Rating:	⑥	⑥



WATKINS-JOHNSON

HF-1000

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Tune lock
- Keypad
- Scan/Sweep
- Rack Handles
- Notch
- S-Meter
- Squelch
- Speaker
- 100 Memories
- IF Out Jack
- Ext. Ref. Jack
- Local/Remote
- DSP IF
- DSP NB
- BFO ± 8 kHz.
- Preamplifier
- Sync. Detection
- Speaker Out
- Channel Lockout
- AGC (Variable)
- RS232 port
- B.I.T.E.
- Atten.
- Passband Tuning
- Mute Line

Specifications:

Coverage 5 - 30000 kHz
Selectivity See Comments.
Sensitivity $< 35 \mu V$ (.5-30 MHz)
3rd Ord Int. +30 dBm
Environment... 0 to +50°C. 95% Humid.
Modes AM/CW/LSB/USB/FM/ISB
Stability 1 PPM
IF Rejection > 80 dB
Antenna Input . BNC

Accessories:

Suboctave Preselector (internal)
Comments: Independent speaker and headphone controls. Scan memories, scan with lock-outs, sweep frequencies, or sweep with lock-outs. Dwell time setable from .5-20 seconds. The 1/4" headphone jack operates in stereo only during ISB reception. Sweep step setable from 1 Hz to 25 kHz. "Low cost" version of HF-8711A. Supplied bandwidths: 8000, 7200, 6400, 6000, 5600, 5200, 4800, 4400, 4000, 3600, 3200, 3000, 2800, 2600, 2400, 2200, 2000, 1800, 1600, 1500, 1400, 1300, 1200, 1100, 1000, 900, 800, 750, 700, 650, 600, 550, 450, 400, 375, 350, 325, 300, 275, 250, 225, 200, 188, 175, 163, 150, 138, 125, 113, 100, 94, 88, 81, 75, 69, 63 and 56 Hz 3-dB.

Made In: United States 1993-1997

Voltages: 97-253 VAC 47-440 Hz
35W

Readout: **00000.001** Digital LED

Physical: 19x5.25x20" 15 Lbs.
482x134x508mm 7 kg

Status: Active Manufacturer
Active Model

Rarity: Scarce

Reviews: *Passport* 1995-1997
WRTH 1995
R.D.I. Whitepaper
Mon. Times November 1995

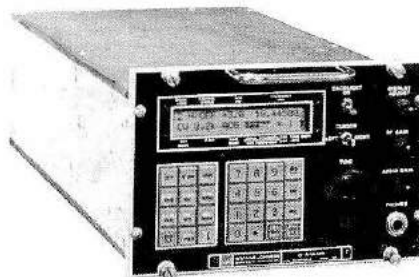
	New	Used
Price:	\$3800-4000	\$2800-2900
Rating:	★★★★★	★★★★★



WATKINS-JOHNSON

WJ-8626A-4

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Dimmer
- Line Out Jack
- IF Out Jack
- Scan/Sweep
- Backlit LCD
- Keypad
- Ext. Ref. Jack
- Backlit Switch
- Scan/Sweep
- Atten.
- BFO
- Speaker Out
- AFC
- 100 Memories
- AGC
- RS232 port
- Mute Line

Specifications:

Coverage 5 - 30000 kHz
Selectivity 16/4/2/1/2 kHz -6dB
Modes AM/CW/LSB/USB/FM
Antenna Input . BNC 50 ohms

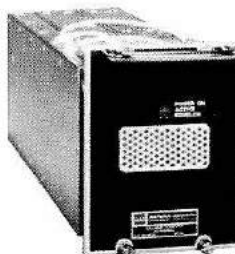
Accessories:

Option Sub-Octave Preselector FSK Demod.

Comments: The 48 character, two line alphanumeric LCD that shows memory channel, control status, BFO offset, frequency, mode, bandwidth, AGC and signal strength bar graph. Can function with up to 34 WJ-9040 VLF/HF/VHF/UHF handoff receivers. Two of these receivers may be mounted side by side in a 19 inch rack. The WJ-8628A-4 model has an identical appearance, but covers 20 to 512 MHz.

Variants:

Model **WJ-8626A-1** (shown) is a quarter-rack, handoff receiver. A handoff receiver must be operated by a control receiver or a receiver controller.



Made In: United States 1986-1990

Voltages: 115/230 VAC 48-420 Hz
25W

Readout: **00000.01** Digital LCD

Physical: 8x5.25x14.38" 21 Lbs.
203x133x366mm 9.7 kg

Status: Active Manufacturer
Inactive Model

Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑥



WATKINS-JOHNSON

WJ-8700

Dual General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Tune lock
- Line Out Jack
- IF Out Jack
- Scan/Sweep
- Squelch
- Keypad
- Ext. Ref. Jack
- RS232 port
- Scan/Sweep
- Atten.
- BFO ± 10 kHz.
- Speaker Out
- Backlit LCD
- 100 Memories
- AGC ON/OFF
- Self Test
- Mute Line
- Spinner Knob

Specifications:

Coverage 5 - 32000 kHz
Selectivity 16/8/4/2/1/1.5 kHz -6dB
Image Reject. >90 dB
3rd Ord Int. +30 dBm
Environment ... -20 to +60°C.

Modes AM/CW/LSB/USB/FM
Stability 7 PPM (0-50°C)
IF Rejection >90 dB
Antenna Input . BNC 50 ohms

Accessories:

Filter Sets ISB Option 21.4 MHz Monitor Out FSK Demod.

Comments:

All receiver functions are menu driven with softkey access to different menu levels via an eight line display. The BFO will tune into 1 Hz steps. Alternate filter sets are available. This is a dual receiver.

Variants: Model **WJ-8700S** is a single channel version of the WJ-8700. Model **WJ-8700-1** covers from 1 - 32000 kHz and has input low pass filter. Model **WJ-8700S-1** is a single receiver version of the WJ-8700-1. Model **WJ-8700/NFP** has no front panel and must be controlled exclusively by computer.

Made In: United States 1989-1997

Voltages: 115/230 VAC 48-420 Hz
85W

Readout: **00000.01** Digital LCD
(8 Line)

Physical: 8.5x3.5x20" 18 Lbs.
210x89x508mm 8.1 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑥



WATKINS-JOHNSON

WJ-8709

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- BFO ± 8 kHz
- Modular
- AF/S-Meter
- Rack Handles
- RF Gain
- IF Out 455 kHz
- AGC FST/SLO/OFF
- 5 Tuning Speeds

Specifications:

Coverage 5 - 30000 kHz
Selectivity 16/5/3.2/1/1.3 kHz -3dB
Sensitivity <4 μ V 16 dB (S+N)/N CW
3rd Ord Int. +20 dBm
Audio Output . 2W 600 ohm

Modes AM/FM/CW/MCW/USB/LSB
Stability 6x10⁻⁸ per day
IF Rejection >80 dB
Environment ... 0 to 50°C. 95% Humid.
Antenna Input . BNC 50 ohm

Accessories:

10 Hz BFO ISB Option LSB/USB Option Sub-Octave Preselector
Remote Module Manual Control Module

Comments:

This is a half-rack version of the WJ-8718. BFO offset controllable by decadic BCD thumb switches to the left of the digital display.

Made In: United States 1984-1997

Voltages: 115/220 VAC 48-410 Hz

Readout: **00000.01** Digital LED

Physical: 9.5x5.2x21.7" 34.7 Lbs.
241x133x552mm 15.8 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

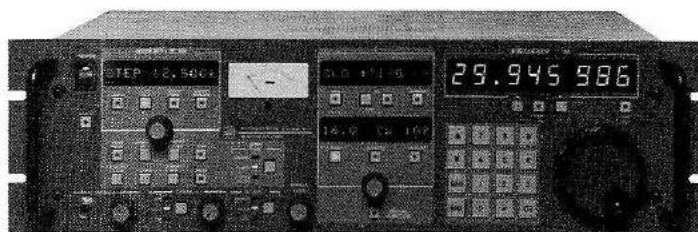
	New	Used
Price:	①	②
Rating:	⑥	⑥



WATKINS-JOHNSON

WJ-8711

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Tune lock
- Keypad
- Scan/Sweep
- Rack Handles
- S-Meter
- Squelch
- Mute Line
- 100 Memories
- IF Out Jack
- Ext. Ref. Jack
- DSP IF
- DSP NB
- BFO ± 8 kHz.
- Preamplifier
- Sync. Detection
- Speaker Out
- AGC (2 pos.)
- RS232 port
- Self test
- Atten.
- Passband Tuning

Specifications:

Coverage 5 - 30000 kHz
Selectivity 16/6/3.2/1/1.3 kHz -3dB
Sensitivity <.35 μ V (.5-30 MHz)
3rd Ord Int. +30 dBm
Antenna Input BNC

Modes AM/CW/LSB/USB/FM/ISB
Stability7 PPM (0-50°C)
IF Rejection >80 dB
Environment ... 0 to +50°C. 95% Humid.

Accessories:

Suboctave Preselector (internal)

Comments:

Replaces WJ-8718. See also HF-1000.

Variants: Model **WJ-8711A** is later production supplied with the following bandwidths: 16000, 14400, 12800, 12000, 11200, 10400, 9600, 8800, 8000, 7200, 6400, 6000, 5600, 5200, 4800, 4400, 4000, 3600, 3200, 3000, 2800, 2600, 2400, 2200, 2000, 1800, 1600, 1500, 1400, 1300, 1200, 1100, 1000, 900, 800, 750, 700, 650, 600, 550, 450, 400, 375, 350, 325, 300, 275, 250, 225, 200, 188, 175, 163, 150, 138, 125, 113, 100, 94, 88, 81, 75, 69, 63 and 56 Hz 3-dB.

Made In: United States 1990-1997

Voltages: 97-253 VAC 47-440 Hz
35W

Readout: **00000.001** Digital LED

Physical: 19x5.25x20" 12 Lbs.
482x133x508mm 5.4 kg

Status: Active Manufacturer
Active Model

Rarity: Very Scarce

Reviews: NASWA July 1993

	New	Used
Price:	\$4495-4795	\$2800
Rating:	★★★★★	★★★★★



WATKINS-JOHNSON

WJ-8712A

General Coverage Communications Computer Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- BFO ± 8 kHz.
- Scan/Sweep
- Ext. Ref. Jack
- DSP IF
- Squelch
- Self test
- IF Out Jack
- Speaker Out
- AGC (2 Pos.)
- DSP NB
- 100 Memories
- Sync. Detection
- Mute Line
- Attenuator
- RS232 port
- Preamplifier
- Passband Tuning

Specifications:

Coverage 5 - 30000 kHz
Selectivity 16/6/3.2/1/1.3 kHz -3dB
Sensitivity <.35 μ V (.5-30 MHz)
3rd Ord Int. +30 dBm
Antenna Input BNC

Modes AM/CW/LSB/USB/FM/ISB
Stability7 PPM (0-50°C)
IF Rejection >80 dB
Environment ... 0 to 70°C. 95% Humid.

Accessories:

Front Panel Suboctave Preselector (internal)

Comments:

The WJ-8712A is the functional equivalent of the WJ-8711. This half-rack sized receiver is designed exclusively for computer control. Available bandwidths: 16000, 14400, 12800, 12000, 11200, 10400, 9600, 8800, 8000, 7200, 6400, 6000, 5600, 5200, 4800, 4400, 4000, 3600, 3200, 3000, 2800, 2600, 2400, 2200, 2000, 1800, 1600, 1500, 1400, 1300, 1200, 1100, 1000, 900, 800, 750, 700, 650, 600, 550, 450, 400, 375, 350, 325, 300, 275, 250, 225, 200, 188, 175, 163, 150, 138, 125, 113, 100, 94, 88, 81, 75, 69, 63 and 56 Hz 3-dB.

Made In: United States 1992-1997

Voltages: 97-253 VAC 47-440 Hz
35W

Readout: **1 Hz.** Digital via computer.

Physical: 8.25x3.5x20" 15 Lbs.
209x89x509mm 6.78 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑥



WATKINS-JOHNSON

WJ-8712P

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- Head. Jack
- RF Gain
- BFO ± 8 kHz.
- Scan/Sweep
- Ext. Ref. Jack
- Keypad
- S Bar Graph
- Squelch
- Self test
- IF Out Jack
- DSP IF
- AGC (2 Pos.)
- DSP NB
- 100 Memories
- Sync. Detection
- Speaker Out
- Attenuator
- RS232 port
- Preamplifier
- Passband Tuning
- Mute Line

Specifications:

Coverage 5 - 30000 kHz
Selectivity 16/6/3.2/1/3 kHz -3dB
Sensitivity $< 35 \mu V$ (.5-30 MHz)
3rd Ord Int. +30 dBm
Antenna Input BNC

Modes AM/CW/LSB/USB/FM/ISB
Stability7 PPM (0-50°C)
IF Rejection > 80 dB
Environment ... 0 to 70°C. 95% Humid.

Accessories:

Suboctave Preselector (internal)

Comments:

Once again this receiver is the functional equivalent of the WJ-8711 in a half rack configuration. Unlike the WJ-8712A, this receiver has a full function front panel for traditional operation. Available bandwidths: 16000, 14400, 12800, 12000, 11200, 10400, 9600, 8800, 8000, 7200, 6400, 6000, 5600, 5200, 4800, 4400, 4000, 3600, 3200, 3000, 2800, 2600, 2400, 2200, 2000, 1800, 1600, 1500, 1400, 1300, 1200, 1100, 1000, 900, 800, 750, 700, 650, 600, 550, 450, 400, 375, 350, 325, 300, 275, 250, 225, 200, 188, 175, 163, 150, 138, 125, 113, 100, 94, 88, 81, 75, 69, 63 and 56 Hz 3-dB.

Made In: United States 1992-1997

Voltages: 97-253 VAC 47-440 Hz
35W

Readout: **00000.001** Digital LED

Physical: 8.25x3.5x20" 15 Lbs.
209x89x509mm 6.78 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

	New	Used
Price:	①	②
Rating:	⑥	⑥



WATKINS-JOHNSON

WJ-8718A

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- BFO ± 8 kHz
- B.I.T.E.
- AF/S-Meter
- Rack Handles
- Line Out Jack
- RF Gain
- 4 Tuning Steps
- IF Out Jack
- AGC FST/SLO/OFF
- 1 MHz Ref Jack

Specifications:

Coverage 5 - 30000 kHz
Selectivity 16/5/3.2/1/3 kHz -3dB
Sensitivity $< 4 \mu V$ 16 dB (S+N)/N CW
3rd Ord Int. +20 dBm
Audio Output .2W 600 ohm

Modes AM/FM/CW/MCW
Stability 6×10^{-8} per day
IF Rejection > 80 dB
Environment ... 0 to +50°C. 95% Humid.
Antenna Input . BNC 50 ohm

Accessories:

10 Hz BFO ISB Option LSB/USB Option Sub-Octave Preselector
Remote Module 1 Hz VFO Option Manual Control Module

Comments:

LEDs are red or green. BFO offset is adjusted by decadic thumbwheels. Also model AN/URR-74(V)2 below which is a military version of the WJ-8718A with the Manual Control Module, ISB and Navy Environment options.

Variants:

Model **WJ-8718**, earlier production, was introduced in 1976.

Made In: United States 1982-1990

Voltages: 115/220 VAC 48-410 Hz
70W

Readout: **00000.01** Digital LED

Physical: 19x5.25x20" 35 Lbs.
482x134x493mm 15.8 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	②
Rating:	⑥	⑥



WATKINS-JOHNSON

AN/URR-74(V)2

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- AF/S-Meter
- RF Gain
- AGC FST/SLO/OFF
- BFO ± 8 kHz
- Rack Handles
- 4 Tuning Steps

Specifications:

Coverage 5 - 30000 kHz Modes AM/FM/CW/MCW
Selectivity 16/5/3.2/1/1.3 kHz -3dB Stability 6×10^{-8} per day
Sensitivity $< 4 \mu\text{V}$ 16 dB (S+N)/N CW IF Rejection > 80 dB
3rd Ord Int. $+20$ dBm Environment ... 0 to $+50^\circ\text{C}$. 95% Humid.
Audio Output .2W 600 ohm Antenna Input . N 50 ohm

Accessories:

10 Hz BFO LSB/USB Option Sub-Octave Preselector
Remote Module 1 Hz VFO Option

Comments:

The LEDs may be red or green. The BFO offset is adjusted by decadic thumbwheels. The model AN/URR-74(V)2 is a military version of the WJ-8718A with the Manual Control Module, ISB and Navy Environment options provided as standard. The Navy Environment option consists of: mil.std. power connector, mil.std., 13 pin audio connector, coated PCB, type N antenna jack, double fused AC circuit, DPST power switch, nickel-plated side panels, and mil. std. elapsed time and RF/AF audio meters.

Made In: United States 1976-1990

Voltages: 115/220 VAC 48-410 Hz
70W

Readout: **00000.01** Digital LED

Physical: 19x5.25x20" 35 Lbs.
482x134x493mm 15.8 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	②
Rating:	⑥	⑥



WATKINS-JOHNSON

WJ-8718A/MFP

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- AF/S-Meter
- RF Gain
- AGC FST/SLO/OFF
- BFO ± 8 kHz
- Rack Handles
- 4 Tuning Steps
- Keypad
- IF Out Jack
- Scanning
- 99 Memories
- BITE
- Sweep
- Dial Lock
- 3 Tuning Speeds

Specifications:

Coverage 5 - 30000 kHz Modes AM/FM/CW/LSB/USB/ISB
Selectivity 16/6/3.2/1/1.3 kHz -3dB Stability 6×10^{-8} per day
Sensitivity $< 4 \mu\text{V}$ 16 dB (S+N)/N CW IF Rejection > 90 dB
3rd Ord Int. $+20$ dBm Image Reject .. > 90 dB
Environment .. 0 to $+50^\circ\text{C}$. 95% Humid. Antenna Input . BNC 50 ohm
Audio Output .2W 600 ohm

Accessories:

10 Hz BFO Sub-Octave Preselector Microprocessor Front Panel
Remote Module Manual Control Module

Comments:

LEDs are yellow in standard version. BFO offset is shown to the left of the frequency display. This is an enhanced version of the WJ-8718A. MFP stands for Microprocessor Front Panel. Additional features include: keypad entry, 99 memories, scanning and LED indicating pushbutton switches.

Made In: United States 1986-1990

Voltages: 115/220 VAC 48-410 Hz
70W

Readout: **00000.01** Digital LED

Physical: 19x5.25x20" 35 Lbs.
482x133x493mm 15.75 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	②
Rating:	⑥	⑥



WATKINS-JOHNSON

WJ-8721

General Coverage Communications Computer Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- Mini Head. Jack
- BITE
- DSP IF
- Notch Filter
- Squelch
- Monitor Out
- BFO ± 8 kHz
- PBT
- Mute Line
- IF Out Jack
- Scan
- S Meter Function
- Line Out 600 ohm
- 100 Memories
- Sweep
- AGC FST/SLO/MAN
- Preamp & Attenuator
- Suboctave Preselect

Specifications:

Coverage 5 - 30000 kHz
Selectivity 16/6/3.2/1/1.3 kHz -3dB
3rd Ord Int. +25 dBm (+30 typical)
Image Rej. >90 dB
Antenna Input 50 ohm

Modes AM/CW/LSB/USB/FM/ISB
Stability 0.7 PPM (0-50°C)
IF Rejection >85 dB (>90 dB Typical)
Environment ... 0 to +50°C.

Accessories:

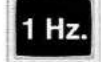
UNIX Control Pgm. DOS Control Pgm.

Comments:

This receiver is designed to conform to the VXI computer bus. Up to 12 receivers may be fit in a single 19" rack. All receiver parameters, except power on/off are controlled by the computer bus. Mini headphone jack is stereo. Performance under specs. from 0 to 500 kHz. Available bandwidths: 16000, 14400, 12800, 12000, 11200, 10400, 9600, 8800, 8000, 7200, 6400, 6000, 5600, 5200, 4800, 4400, 4000, 3600, 3200, 3000, 2800, 2600, 2400, 2200, 2000, 1800, 1600, 1500, 1400, 1300, 1200, 1100, 1000, 900, 800, 750, 700, 650, 600, 550, 450, 400, 375, 350, 325, 300, 275, 250, 225, 200, 188, 175, 163, 150, 138, 125, 113, 100, 94, 88, 81, 75, 69, 63 and 56 Hz 3-dB.

Made In: United States 1992-1997

Voltages: N/A (off bus) 21W

Readout:  Digital via computer.

Physical: 1.2x9.2x13.4" 5 Lbs.
31x237x335mm 2.26 kg

Status: Active Manufacturer
Active Model

Rarity: Typically Unavailable

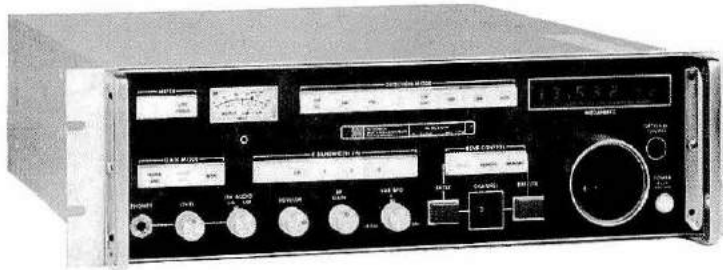
	New	Used
Price:	①	②
Rating:	⑥	⑥



WATKINS-JOHNSON

WJ-8888

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF Meter
- RF Gain
- VRIT
- Sync. Rem. Port
- 1 MHz Output
- BFO ± 8 kHz
- Line Out 600 ohm
- Squelch
- Rack Handles
- IF Out 455 kHz
- ISB Mode
- AGC MAN/NORM/HOLD
- 4 Memories

Specifications:

Coverage 500 - 30000 kHz
Selectivity 8/4/2/5/_/_ kHz -3dB
Sensitivity <.4 μ V 16 dB (S+N)/N CW
Image Rej. >100 dB
IF Rejection ... >100 dB

Modes AM/FM/CW/LSB/USB/ISB
Stability 6x10⁻⁸ per day
Environment ... 0 to +50°C.
Antenna Input . 50 ohm

Accessories:

.2 kHz Filter 1 kHz Filter 3 kHz Filter 6 kHz Filter
12 kHz Filter 16 kHz Filter 16 Chan Mem.

Comments: The WJ-8888 has three operating modes. In Local mode the receiver is tuned manually. In the Remote mode the receiver accepts and stores a digital word. This 64 bit word stores: frequency, mode, gain level, bandwidth, RF gain level, and BFO frequency. In Memory mode these same parameters may be stored and retrieved. 4 Memories are supplied. Audio is only available at line out levels or via headphone jack. Sub-octave filters are automatically switched for preselection. Referred to as the W-J "Quad 8". A sophisticated receiver and very collectable.

Variants: Model WJ-8888A 1975.

Made In: United States 1972-1974

Voltages: 115/220 VAC 48-62 Hz
80W

Readout: **00000.01** Digital LED

Physical: 19x5.25x19.5" 40 Lbs
483x133x495mm 18.1 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥



WATKINS-JOHNSON

WJ-8888B

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S/AF Meter
- Squelch
- ISB Mode
- RF Gain
- 4 Tuning Speeds
- Rack Handles
- AGC MAN/NORM/HOLD
- Sync. Rem. Port
- 1 MHz Output
- IF Out 455 kHz
- 4 Memories
- BFO ± 8 kHz
- Line Out 600 ohm

Specifications:

Coverage 500 - 30000 kHz Modes AM/FM/CW/LSB/USB/ISB
Selectivity 8/4/2/5/_/_ kHz -3dB Stability 6×10^{-8} per day
Sensitivity $< .4 \mu V$ 16 dB (S+N)/N CW Environment ... 0 to +50°C.
Image Rej >100 dB Antenna Input . 50 ohm
IF Rejection ... >100 dB

Accessories:

.2 kHz Filter 1 kHz Filter 3 kHz Filter 6 kHz Filter
12 kHz Filter 16 kHz Filter 16 Chan Mem.

Comments:

The later "B" model is very similar to the original version. Note the four buttons to the right of the main tuning knob. These select Tuning Resolution at 10 Hz, 100 Hz, 1 kHz or 10 kHz. Audio is only available at line out levels or via the headphone jack.

Made In: United States 1976-1980

Voltages: 115/220 VAC 48-62 Hz
80W

Readout: **00000.01** Digital LED

Physical: 19x5.25x19.5" 40 Lbs
483x133x495mm 18.1 kg

Status: Active Manufacturer
Inactive Model

Rarity: Extremely Scarce

	New	Used
Price:	①	⑤
Rating:	⑥	⑥

In 1956 a young Japanese college graduate and amateur experimenter, Sako Hasegawa, read with enthusiasm about the development of Single Sideband by Arthur Collins. After constructing several SSB generators for himself and friends, he was soon receiving requests from radio amateurs all over Japan for complete transmitters. Yaesu Musen Company, Ltd. was thus founded and incorporated in 1959 to produce radio communications equipment for radio amateurs.

Beginning with the FT-20 SSB transmitter, the Yaesu brand rapidly became known over the air worldwide and in 1961 Yaesu Musen began exporting to Australia, followed soon afterwards by Switzerland, Germany and the United States. In 1966 Yaesu developed the first Japanese amateur transceiver using transistors, the FT-100 which was very popular. All profits were reinvested to expand the Company and the product line grew.

Yaesu became a household word among shortwave DXer's with the introduction in 1977 of the famous Yaesu FRG-7. Justifiably rated by the 1978 *World Radio TV Handbook* as "The best all around set". Yaesu is currently offering the FRG-100, which again, presents a good value for the money.

Yaesu Musen Company Ltd.

C.P.O. Box 1500

Tokyo, Japan

1970-1996

Yaesu Electronics Corporation

7625 E. Rosecrans Ave. #29

Paramont, CA 90723

Yaesu Electronics Corporation

15954 Downey Ave.

Paramont, CA 90723

1970-1980

Yaesu Electronics Corporation

6851 Walthall Way

Paramont, CA 90723

1982

Yaesu Electronics Corporation

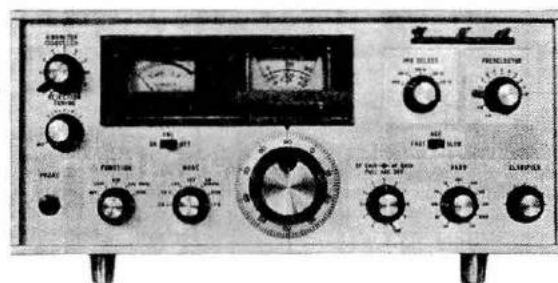
17210 Edwards Rd.

Cerritos, CA 90701

1990-1996



FRdx400



Amateur Band Communications Receiver

Double Conversion Superheterodyne. 10 Tubes plus Semiconductors.

Features:

- 1/4" Head. Jack
- RF Gain
- Squelch
- ANL
- S-Meter
- Notch Filter
- Speaker Out
- BFO
- Standby
- Preselector
- Line Out
- Calibrator 100/25 kHz
- AGC SLO/FST/OFF
- VFO Out

Specifications:

Coverage Ham. See Comments. Modes AM/LSB/USB/CW
 Selectivity 4/2.4/1/_ kHz -6dB. Stability <100 Hz after warmup
 Sensitivity <5µV10 dB S/N SSB/CW IF Rejection >60 dB
 Dial Accur. 1 kHz (after calib.) Antenna Input . SO239 50-75 ohm
 Audio Out 2W 4/600 ohms 5% dist.

Accessories:

FC-6TR 6M Conv. FC-2TR 2M Conv. MF455-03AZ 600 Hz CW Filter
 FM Mode Option CFM455H 5 kHz AM Filter CFM455B 24 kHz FM Filter
 4 Chan. Fixed Crystal

Comments:

Supplied coverage: 1.7-2.3, 3.5-4.1, 6.9-7.5, 13.9-14.5, 20.9-21.5, 27.9-28.5 and 28.5-29 MHz. Optional positions: 26.9-27.5, 29.5-30.1 and 9.9-10.5 MHz. The FRdx400 provides better than 1 kHz dial accuracy. Matches the FLdx400 Transmitter. Requires a speaker.

Variants:

Model **FRdx400SD** includes the 6 and 2 meter converters built-in \$399 new.

Made In: Japan 1971-1974

Voltages: 100/110/117/200/220/234
 VAC 50/60 Hz 50W

Readout: Analog Lin.

Physical: 14.5x6.5x11.5" 25 Lbs.
 368x165x292mm 11.3 kg

Status: Active Manufacturer
 Discontinued Model

Rarity: Scarce

	New	Used
Price:	\$299-399	\$150-170
Rating:	★★★★	Ⓒ



FR-101S

Amateur Band Communications Receiver

Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Dial Lock
- Calibrator 100/25 kHz
- RF Gain
- Squelch
- Preselector
- AGC OFF/FST/SLO
- Mute
- Standby
- Speaker Jack
- Side Tone Jack
- VFO Jack
- Record Jack
- Clarifier ± 5 kHz
- Fixed Crystal Jack
- NB
- Spinner Knob
- Atten. -10/20 dB

Specifications:

Coverage Ham. See Comments. Modes AM/LSB/USB/CW/RTTY
 Selectivity 2.4/ / kHz -6dB. Stability 100 Hz 30 min period
 Sensitivity $< 3\mu\text{V}$ (@ 14MHz). IF Rejection > 60 dB
 Dial Accur. 1 kHz (after calib.) Antenna Input . SO239 50 ohms
 Audio Out 2 W 10% distortion

Circuit Complement:

4 Integrated circuits, 20 Transistors, 12 FET and 33 diodes.

Accessories:

SP-101B Speaker SP-101PB Patch/Speaker FM-1 FM Detector
 XF-30C .6 kHz Filter XF-30B 6 kHz Filter FC-2 2 Meter Converter
 XF-30D FM Filter FC-6 6 Meter Converter

Comments:

Coverage: 1.8-2, 3.5-4, 7-7.5, 14-14.5, 21-21.5, 28-28.5, 25.5-29 plus optional shortwave bands. Dial accuracy is 1 kHz. Matches FL-101 Transmitter. A very good receiver, but analog readout and ham band only coverage keeps the value down.

Made In: Japan 1974-1978

Voltages: 100/110/117/200/220/234
 VAC 50/60 Hz or 12 VDC

Readout: Analog Lin.

Physical: 6x13.5x12" 20 Lbs.
 153x340x285mm 9 kg

Status: Active Manufacturer
 Discontinued Model

Rarity: Scarce

Reviews: *Ham Radio* July 1974

	New	Used
Price:	\$499-599	\$150-160
Rating:	★★★★	★★★



FR-101SD

Amateur Band Communications Receiver

Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Side Tone Jack
- Calibrator 100/25 kHz
- RF Gain
- Squelch
- Preselector
- AGC OFF/FST/SLO
- Mute
- Standby
- Speaker Jack
- Clarifier ± 5 kHz
- VFO Jack
- Record Jack
- Dial Lock
- Fixed Crystal Jack
- NB
- Spinner Knob
- Atten. -10/20 dB

Specifications:

Coverage Ham. See Comments. Modes AM/LSB/USB/CW/RTTY
 Selectivity 2.4/ / kHz -6dB. Stability 100 Hz 30 min period
 Sensitivity $< 3\mu\text{V}$ (@ 14MHz). IF Rejection > 60 dB
 Audio Out 2 W 10% distortion Antenna Input . SO239 50 ohms

Accessories:

SP-101B Speaker SP-101PB Patch/Speaker FM-1 FM Detector
 XF-30C .6 kHz Filter XF-30B 6 kHz Filter FC-2 2 Meter Converter
 XF-30D FM Filter FC-6 6 Meter Converter

Comments:

Coverage: 1.8-2, 3.5-4, 7-7.5, 14-14.5, 21-21.5, 28-29 plus optional shortwave bands. Matches the FL-101 Transmitter. The digital frequency display only operates when the receiver is run from AC power. This receiver is also referred to as the FR-101D or FR-101 Digital. A good receiver. The used value is suppressed because of the light demand for non-general coverage receivers.

Made In: Japan 1974-1978

Voltages: 100/110/117/200/220/234
 VAC 50/60 Hz or 12 VDC

Readout: **00000.1** Digital LED

Physical: 6x13.5x12" 31 Lbs.
 153x340x285mm 14 kg

Status: Active Manufacturer
 Discontinued Model

Rarity: Scarce

	New	Used
Price:	\$629-749	\$220-270
Rating:	★★★★	★★★



FRG-7

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Speaker
- Atten. 3 Pos.
- Tone (3 Pos.)
- Preselector
- Dial Lamp
- Carrying Handle
- Mute Line
- ANL
- Record Jack
- Fine Tuning
- Spinner Knob
- Fiduciary Adj.
- Dial Lamp Switch

Specifications:

Coverage 500 - 29900 kHz Modes AM/USB/LSB-CW
Selectivity ± 3 kHz -6dB. Stability ± 500 Hz 30 min period
Sensitivity $< .25\mu\text{V}$ S/N 10 dB CW IF 55, 3-2 MHz, .455 kHz
Audio Out 2 W 10% dist. Antenna Input . SO239 & Terminals

Accessories:

DC Kit Intl. Battery Holder (8xD)

Circuit Complement:

2 Integrated circuits, 13 transistors, 9 FETs and 16 diodes. Outstanding stability is achieved through the use of the Barlow Wadley loop drift cancellation circuit developed by Dr. T. L. Wadley of South Africa.

Comments:

Ranges: .5-1.6, 1.6-4, 4-1 and 11-29.9 MHz. The Fine Tuning knob was not featured on early production. The analog linear dial yields 10 kHz dial accuracy. An excellent, durable receiver. Perhaps the best used receiver value under \$350. Also see Sears model 412.36380700.

Made In: Japan 1976-1980

Voltages: 100/110/117/200/220/234
VAC 50/60 Hz or 12 VDC
or 8 D cells optional holder

Readout:  Analog Lin.

Physical: 13.5x6.5x11.5" 16 Lbs.
340x153x285mm 7 kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: *WRTH* 1978, 1980
73 May 1977
73 June 1977

	New	Used
Price:	\$290-370	\$160-250
Rating:	★★★★★	★★★★★

YAESU

FRG-100

General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- S-Meter
- Speaker
- Atten. -6/12/18 dB
- RF Gain
- Squelch
- Dimmer
- 3 Tuning Steps
- Mute Line
- Remote Jack
- Record Jack
- Dial Lock
- NB
- Speaker
- CAT Jack
- AGC FAST/SLOW
- 50 Memories
- Memory Scan
- Sweep
- Backlit LCD
- Carry Handle
- Digital Clock Timer 12/24H

Specifications:

Coverage 50 - 30000 kHz Modes AM/USB/LSB-CW
Selectivity 6/4/2.4/___ kHz -6dB. IF Rejection > 70 dB 1.8-30 MHz
Sensitivity $< .25\mu\text{V}$ SSB/CW 1.8-30 MHz Antenna Input . SO239 & Terminals
Audio Out 4- 8 ohm

Accessories:

YF-100C 500 Hz Filtr. FIF Cat Interface TCXO-4 High Stability
YF-100CN 300 Hz Filtr. FM Unit-100 FM Mode
BEEI Wired Keypad (Not made by Yaesu)

Comments:

Display resolution is selectable at 10 or 100 Hz. Many programmable features including: 10 Hz frequency display, memory sort, CW offset, continuous or noncontinuous back lighting, custom tuning steps, etc. Extremely stable, highly accurate and very sensitive. An excellent RTTY/FAX receiver. A third-party wired keypad, made in France by BEEI plugs directly into the CAT jack on the rear panel.

Made In: Japan 1994-1997

Voltages: 11-12 VDC
Supplied with AC PS

Readout: **00000.01** Digital LCD

Physical: 9.37x3.6x9.5" 6.6 Lbs.
238x93x243mm 3 Kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: *Passport* 1994-1997
WRTH 1993
NASWA June 1993
ODXA May 1993
SW Magazine April 1993

	New	Used
Price:	\$590-650	\$300-380
Rating:	★★★★★	★★★★★



FRG-7000



General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Meter
- Speaker
- Attenuator
- RF Gain
- Tone
- Preselector
- Digital Clock Timer 24H
- Mute Line
- Remote Jacks
- Record Jack
- Fine Tuning
- ANL
- Display ON/OFF
- Carry Handle

Specifications:

Coverage 250 - 29900 kHz Modes AM/USB/LSB-CW
Selectivity 6/3 kHz -6dB Stability ± 500 Hz 30 min period
Sensitivity $< 7 \mu V$ S/N 10 dB Antenna Input . SO239 & Terminals
Audio Out 2 W 4 ohm 10% dist

Circuit Complement:

27 Integrated circuits, 15 FETs, 17 transistors and 44 diodes.

Comments:

The digital display and indicator lamps may be turned off to conserve power. Two remote jacks provide NO (normally open) or NC (normally closed) connections. The timer is one event with on and off. This first Yaesu digital general coverage receiver did not live up to the performance level of its predecessor, the venerable FRG-7.

Made In: Japan 1977-1980

Voltages: 100/110/117/200/220/234
VAC 50/60 Hz 25W

Readout: **00001.** Digital LED

Physical: 14.3x5x11.5" 16 Lbs.
360x125x295mm 7 Kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: *WRTH* 1980
Australian DX News July '78

	New	Used
Price:	\$599-655	\$180-275
Rating:	★★★★	★★★



FRG-7700



General Coverage Communications Receiver
Triple Conversion Superheterodyne. Solid State.

Features:

- 1/4" Head. Jack
- S-Meter
- Speaker
- Atten. Variable
- RF Gain
- FM Squelch
- Dimmer
- Digital Clock Timer 12H
- Mute Line
- Remote Jacks
- Record Jack
- Carrying Handle
- NB
- Mem Fine Tune
- AGC FAST/SLOW

Specifications:

Coverage 150 - 29999 kHz Modes AM/USB/LSB-CW/FM
Selectivity 12/6/2.7 kHz -6dB [15FM] Stability ± 300 Hz 30 min period
Sensitivity $< .5 \mu V$ SSB/CW 2-30 MHz Antenna Input . SO239 & Terminals
Audio Out 1.5 W 8 ohm 10% dist

Circuit Complement:

37 Integrated circuits, 107 transistors and 97 diodes.

Accessories:

FRV-7700 VHF Conv FRA-7700 Active Antenna FF-5 Low Pass Filter
FRT-7700 Tuner MU-7700 12 Ch Memory DC7-700 DC Kit

The external FRV-7700 came in six versions: **A:** 118-130, 130-140, 140-150. **B:** 50-59, 118-130, 140-150. **C:** 140-150, 150-160, 160-170. **D:** 70-80, 118-130, 140-150. **E:** 118-130, 140-150, 150-160. **F:** 118-130, 150-160, 160-170 MHz.

Comments:

The digital display utilizes yellow LEDs. Note that the squelch works in FM mode only. Note that the Fine Tune knob only works on the (optional) MU-7700 memory channels. The MU-7700 Memory Option is mounted internally without special tools.

Made In: Japan 1981-1984

Voltages: 100/120/220/240 AC
50/60 Hz 33-39W

Readout: **00001.** Digital LED

Physical: 13x5x10" 15 Lbs.
334x129x225mm 6 Kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: *WRTH* 1982
Monit. Times Sept. 1982
73 September 1981
QST August 1981
Buyer's Guide to Amateur R.

	New	Used
Price:	\$400-550	\$260-340
Rating:	★★★★	★★★

YAESU

FRG-8800

General Coverage Communications Receiver
Double Conversion Superheterodyne. Solid State.



Features:

- 1/4" Head. Jack
- RF Gain
- Mute Line
- NB (NAR/WIDE)
- Keypad Entry
- CAT Jack
- S-Indicator
- Squelch
- Remote Jacks
- Speaker 4"
- Line Out 600 ohm
- 12 Memories
- Speaker
- Dimmer
- Rec Jack 50K ohm
- Fine Tuning
- Scan/Sweep
- Dual Digital Clock Timer 24H
- Atten. Variable
- Fast/Slow Tuning
- Fine Tuning
- AGC FAST/SLOW
- Carrying Handle

Specifications:

Coverage 150 - 29999 kHz Modes AM/USB/LSB-CW/FM
Selectivity 6/2.7 kHz -6dB. [12.5] Stability <50 Hz after 30 mins.
Sensitivity <.4µV SSB/CW 1.6-30 MHz Image Rej. >60 dB
Audio Out 1.4 W 8 ohm 10% dist Antenna Input . SO239 & Terminals

Accessories:

FRV-8800 VHF Conv FRA-7700 Active Antenna FF-5 Low Pass Filter
FRV-7700 VHF Conv FRT-7700 Tuner DC-8800 DC Kit
FIF CAT Interface

Note: The FRV-8800 is an internal VHF converter covering 118-174 MHz.

Comments:

Three AA cells are required for memory backup. A small internal slide switch selects AUTO or MANUAL scanning. In MANUAL mode the Squelch is ignored. Tuning steps may be set for 25 or 500 Hz. The CAT Jack along with the optional FIF Interface Unit, permits control via computer, including interrogation of the S-Meter.

Made In: Japan 1985-1993
Voltages: 100/120/220/240 VAC
50/60 Hz and 3 AA cells

Readout: **00000.1** Digital LCD

Physical: 13x5x8.75" 13.2 Lbs.
334x118x225mm 6.1 Kg

Status: Active Manufacturer
Discontinued Model

Rarity: Common

Reviews: *Passport* 1985/86-1995
WRTH 1986

WRTH Buyer's Guide 1993

R.D.I. Whitepaper

Pop Comm Sept. 1985

Buyer's Guide to Amateur R.

Radio Elec. World Aug. 1987

	New	Used
Price:	\$429-699	\$400-440
Rating:	★★★★	★★★

79 Briefly Mentioned

This Chapter includes receivers that fall into one or more of the following categories:

- ◆ An extremely rare model.
- ◆ Not significant enough to merit a full entry.
- ◆ Information lacking for a full entry.
- ◆ Limited frequency coverage.
- ◆ Late arriving information.

AKD

HF3 Target



General Coverage Communications Receiver

Digital Solid State
Made in England 1996

Features:

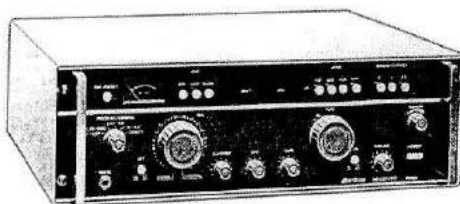
Coverage is from 30 - 30000 kHz in 1 kHz steps. AM/USB/LSB, 6/3.8 kHz, 1 μ V, IF: 45 MHz, 455 kHz, 4 tuning rates., one memory, attenuator, clarifier \pm 800 Hz, 2W audio, speaker. Antenna input is a 70 ohm RCA phono jack.

Comment:

This 12VDC unit is designed for mobile use. Reviewed in *Shortwave Magazine* November 1996.

Anritsu

RG52A



General Coverage Communications Receiver

Digital Solid State
Made in Japan

Features:

Covers: 100-30000 kHz. Double conversion Superhet. AM/CW/MCW/LSB/USB (option ISB/FAX). 6 digit LED, Optional mems., .5 μ V CW 12 dB S/N., 6/3/.5 kHz, Image Rej. 70 db, IF Reject 80 dB.

Comment:

A commercial-maritime receiver. \$4000A new.

Variants: The **RG53A** is similar, later production, covering to 35 MHz, 6/3/.5/.2 kHz[¥400000-600000].



CR-70



General Coverage Communications Receiver

Digital Solid State
Made in U.S.A. 1970-1971

Features:

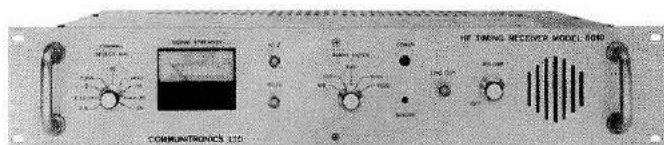
Covers: 2-30 MHz. Has: Preselector, S-Meter, Speaker, ANL, BFO and 1/4" Headphone Jack. Tunes in 100 Hz steps via decadic switches or VFO. AM/LSB/USB/CW/FSK. 117 VAC.

Comments:

A commercial receiver. Scarce.

COMMUNITRONICS LTD.

6010



HF Time Station Fixed Receiver

Channel Display.
Made in U.S.A.

Features:

The model 6010 is an updated version of the 6006 WWV Receiver. It receives WWV time signals at 2.5, 5, 10, 15, 20 and 25 MHz (CHU frequencies with optional local oscillator unit). AM mode, 4 kHz -3 dB, 1 μ V sensitivity, 2 W audio out, S-Meter, and audio filter. BNC type antenna input (50 or 800 ohms). Designed for 19" rack mounting. 19"x3.5x14" 115 VAC \pm 10.

Concord

1-504



Shortwave Broadcast Receiver

Analog 5 Tubes
Made in United States 1947 \$35 new.

Features:

Ranges: .535-1.72, 2.2-7.2 and 6.9-23.5 MHz, AVC, 5 inch speaker.

Comment:

Circuit complement: 6BE6 Converter Osc., 6BA6 IF Am, 6AT6 Detector/AVC/Audio Amp, 6AQ5 Power Output and 6X4 Rectifier. Plastic case. 110-230 VAC. 20x15.5x9.75" 10 Lbs.

Concord

1-604



Shortwave Broadcast Receiver

Analog 6 Tubes
Made in United States 1947 \$20 new.

Features:

Ranges: .540-1.75, and 6-21 MHz, 5 inch speaker.

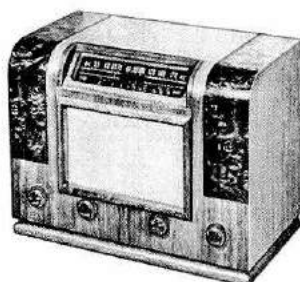
Comment:

Circuit complement: 12SQ7GT Detector/1st IF, 12SK7GT RF Amp, 12SK7GT IF Amp, 12SA7GT Osc/Mixer, 35L6GT Audio Amp and 35Z5 Rectifier. Plastic case. 105-125 VAC or 105-125 VDC. 12x7x7.5x6.5" 8 Lbs.

Variants: Model 1-605 is the same but ivory case.

Concord

6F26W



Shortwave Broadcast Receiver

Analog 6 Tubes
Made in United States 1947 \$30 new.

Features:

Ranges: .540-1.73 and 5.4-18.3 MHz, 5 inch speaker, AVC, dial lamp, tone and MW ferrite antenna.

Comment:

Circuit complement: 12SQ7GT Detector/1st IF, 12SK7GT RF Amp, 12SK7GT IF Amp, 12SA7GT Osc/Mixer, 35L6GT Audio Amp and 35Z5 Rectifier. Walnut veneer case. 105-125 VAC or 105-125 VDC. 14.5x9.375x7.75" 13 Lbs.

ECHOPHONE

EC-1



General Coverage Communications Receiver

Analog 6 Tubes
Made in United States 1941 \$20-29 new.

Features:

Covers: 550-30500 kHz. Bandsread 0-100, BFO, Headphone Jack, Speaker, Speaker-Headphone Switch and Standby.

ECHOPHONE

EC-1A



General Coverage Communications Receiver

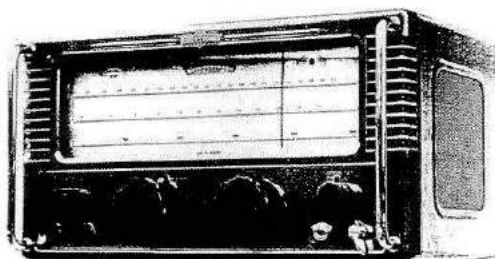
Analog 6 Tubes
Made in United States 1946

Features:

Covers: 550-30500 kHz. Bandsread 0-100, BFO, Headphone Jack, Speaker, ANL, Speaker-Headphone Switch and Standby.



909A



Marine Communications Receiver

Analog Tubes

Made in England 1967

Features:

Coverage: 1.6-4.7 MHz. RF Gain. Operates from AC or DC. Single conversion. SO-239 75 ohm ant. input, 140:1 Tune ratio.

Comment: Designed for the marine market.

Variants:

Model **909A/1** Operation from external supply 24V 100-150V. Model **909A/2** had an internal supply to operate from 24 VDC.

EICO

711 Space Ranger



General Coverage Communications Receiver

Analog

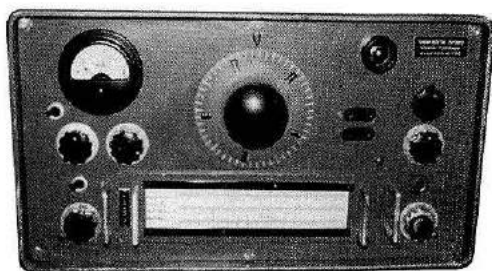
Made in United States 1968 \$70 new wired

Features:

Covers: .55-30 MHz. Ranges: .55-16, 1.5-4, 4-10 and 9.5-30 MHz. Has: Bandspeed 0-100, Standby, S-Meter, Speaker, BFO and 1/4" Headphone Jack. 117VAC. Also sold as a kit for \$50.

Funkwerk stätten Bernberg

AQSt. Nr. 5268



Receiver

Analog

Made in East Germany

Features:

Unknown.

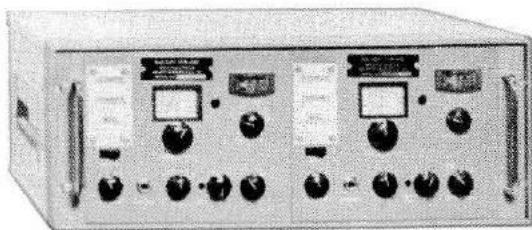
Comment: This receiver is believed to be an East German knock-off of the famous National HRO design. Further information on this model is solicited by the author.



GALAXY

FFR-230

(R-1735/URR)



Single Channel Strip Receiver

Analog Display

Solid State

Made in U.S.A.

1969-75 \$750 new.

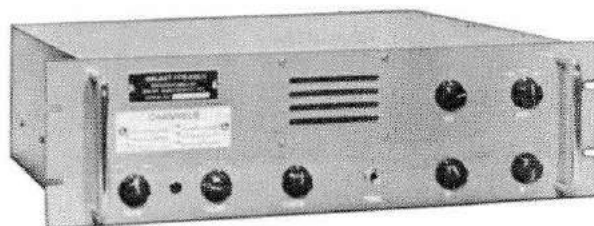
Features:

Single channel, crystal controlled 2 to 30 MHz receiver. Preselector, S/AF-Meter, BFO, Standby 1/4" Headphone Jack, Rack Handles, .5μV 10 dB S/N sensitivity, 110/220 VAC. 8.375x5.93x14.875" 13 Lbs. 115/230 VAC 50-60 Hz. Two receivers may be mounted side-by-side in a 19" space as shown.



GALAXY

FFR-230/6



Six Channel Strip Receiver

No Display

Solid State

Made in U.S.A.

1971-75 \$950 new.

Features:

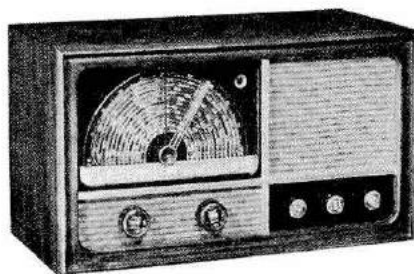
Six channel, crystal controlled 2 to 18 MHz receiver. 1/4" Headphone Jack. BFO, Speaker, LSB/USB/CW, BFO, RF Gain. .5μV 10 dB S/N sensitivity, 2.1/1.5 kHz, 4/600 ohm. 110/220 VAC.

Comment:

Modular construction. Reviewed in *Ham Radio* October 1971.



X-371



Shortwave Broadcast Receiver

Analogue 11 Tubes

Made in United States 1954

Features:

Ranges: "9 shortwave bands, 2 general coverage shortwave bands and one broadcast band"

Comment:

The X-371 has a 10 inch speaker. Other features and specifications are unknown.

Variants: Model X-372 is the same but with a Blnde Korina case.

G.E.C.

BRT 400D



General Coverage Communications Receiver

Analogue Tubes

Made in England 1955

Features:

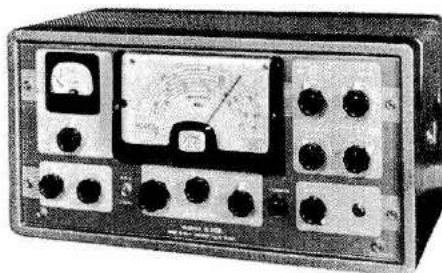
S-Meter, Rack Handles, BFO and Antenna Trimmer. A 500 kHz Crystal Calibrator is optional. Produced in both rack and cabinet configurations. Other features and specifications are unknown.

Comment:

This receiver was made by the General Electric Company Limited of England.

GELOSO

G-209



Amateur Band Receiver

Analogue 12 Tubes Double Conv.

Made in Italy 1959 \$299 new.

Features:

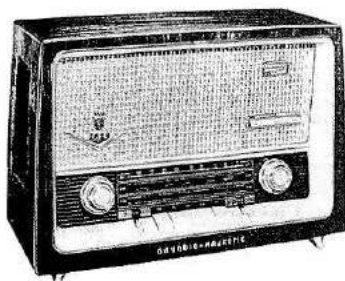
1/4" Headphone, S-Meter, Antenna Trimmer, Mute Line, BFO, Standby. Receives 80-10 Meters. Operates 110/125/140/160/220 VAC 90W. Matches the G-22TR transmitter. 20x10x10.25" Reviewed in QST July 1959.

Comment:

Was imported and distributed in the United States by American Geloso Electronics, 251 Park Av, NY, NY.

GRUNDIG

2028



Shortwave Broadcast Receiver

Analogue 5 Tubes & 1 Diode

Made in West Germany

Features:

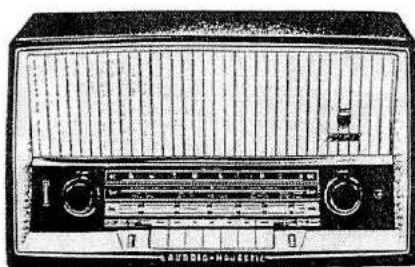
Ranges: .51-162, 5.9-16 MHz plus FM 88-180 MHz. Tone control, 2 Speakers, Tuning Eye, Black Forest Walnut case, Dial Lamp, Aux. Input Jack, MW Ferrite Antenna and Antenna Input Terminals.

Comment:

18.75x13x9" Operates from 110-220 VAC 60 Hz.

GRUNDIG

2120



Shortwave Broadcast Receiver

Analogue 5 Tubes & 1 Diode

Made in West Germany

Features:

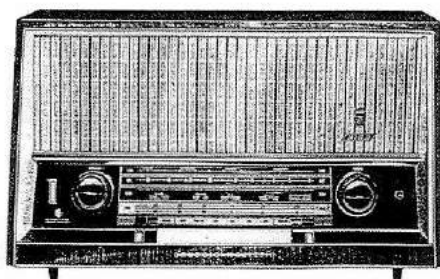
Ranges: .51-16, 5.9-16 MHz plus FM 87-180 MHz. Tone control, 2 Speakers, Tuning Eye, Dial Lamp, Aux. Input Jack, Plastic Case, MW Ferrite Antenna and Antenna Input Terminals.

Comment:

20.5x12.25x8" Operates 115/220 VAC 60 Hz 50W.

GRUNDIG

3165



Shortwave Broadcast Receiver

Analog 6 Tubes & 3 Diodes
Made in West Germany

Features:

Ranges: .51-16, 5.9-16 MHz plus FM 88-180 MHz. Tone control, 3 Speakers, Tuning Eye, Black Forest Walnut case, Dial Lamp, Aux. Input Jack, MW Ferrite Antenna and Antenna Input Terminals.

Comment:

22.25x13x8.75"



CR-3000



Shortwave Communications Receiver

Analog Solid State
Made in Japan 1968-70 \$230 new

Features:

Covers: .19-.4, .55-1.6, 2-4, 5.85-10.3 and 11-18 MHz and stereo FM 88-108 MHz. Has: 10 watts per chan. out., AGC, BFO and 1/4" stereo head. jack. Inputs for ceramic and magnetic phono, tape deck & aux. Vinyl covered steel cabinet 15.125x5x12.25".

Comment:

A difficult radio to classify. Perhaps best described as a home stereo receiver with shortwave capability.



RDF-10



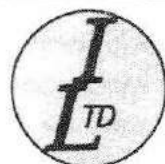
Radio Direction Finding Receiver

Analog Solid State
Made in United States 1962 \$180 new.

Features:

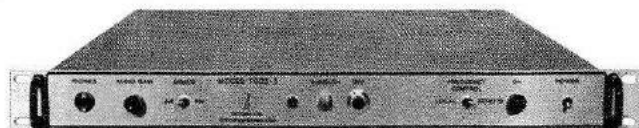
Ranges: .19-.4, .55-1.6 and 1.7-3.4 MHz. RF Gain, Null Meter, Tone, Antenna Trimmer, Carry Handle.

Comment: The RDF-10 is designed to provide bearings for location of the marine craft on which it is used. A calibrated compass scale on the top of the receiver may be set by the shielded ferrite loop antenna. Note limited HF coverage. Operates from six "C" cells.



INTERAD LTD.

7802-3



HF-VHF Fixed Receiver

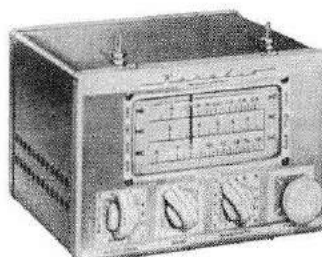
No Display. Solid State
Made in U.S.A.

Features:

In local mode, any single frequency from 10 to 500 MHz may be selected via internal switches to a 1 kHz resolution. AM/FM detection, Squelch, 1/4" head-phone jack. Rack mounted. Optional remote via RS232, RS422 or IEEE488. BNC antenna jack. 115/230 VAC 50-400 Hz. 19"x1.72"x24" 25 Lbs.

KARADIO

80-C



Communications Receiver

Analog 6 Tubes
Made in United States 1952 \$65-110 new.

Features:

Ranges: .54-1.65, 2.8-7.5 and 4.8-17.5 MHz. RF Gain.

Comment:

Designed for mobile amateur market. Circuit complement: 6BA6 RF, 6BE6 Mix, 6BA6 IF, 6AT6 Demod/1st Audio, 6AQ5 Output, 6X6GT Rect. 6.675x4.5x6".

KW Electronics Ltd.

KW 77



Amateur Band Receiver

Analog Linear Display. Tube Type
Made in England. 1964

Features:

Ranges: 1.8-2, 3.5-4.1, 7-7.5, 14-14.5, 21-21.5, 28-29.7 MHz. Has crystal calibrator, and AVC. Triple conversion. Operates from 110/220/240 VAC. 16x6.75x12" 30 Lbs.

Comment:

A popular amateur receivers in England in the 1960's.

KW Electronics Ltd.

KW 201



Amateur Band Receiver

Analog Linear Display. Tube Type
Made in England. 1967-68

Features:

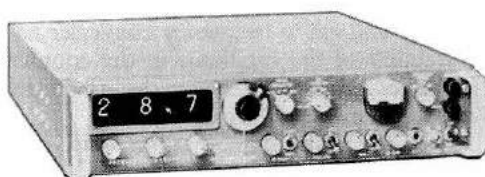
Covers 160 to 10 meters. With 3.1 kHz mechanical filter. Optional Q-Multiplier and Crystal Calibrator (3.1-2 kHz).

Comment:

13.75x6x12.5 19 Lbs. Sells for \$120-140 used. Model KW-202 1972 \$395

LORCH

HR-240



Communications Receiver

Partial Digital Display.

Features:

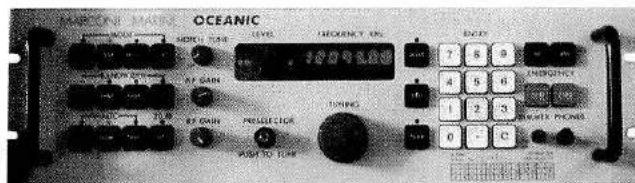
Digital display of MHz and 100 Hz position via Nixie tubes. Remaining digits via mechanical knob. S-meter.

Comment:

The author would welcome further information from readers on this interesting model.



M3000 Oceanic



General Coverage Communications Receiver

Digital Solid State
Made in England 1984

Features:

S-Indicator, RF Gain, Notch, BFO, Memories, Attenuator, AGC, 4 bandwidths, Scanning, 1/4" Headphone Jack, Atten. -20 dB, Dimmer, Keypad and Rack Handles. Coverage is from 15 - 30000 kHz to 10 Hz in: AM/CW/SSB/RTTY/FAX. Presets for 500 & 2182 kHz. Has Line and IF out. Modular construction.

Comment: For maritime use.



802



Amateur Band Communications Receiver

Analog 8 Tubes
Made in U.S.A. 1947 \$39 new.

Features:

Single conversion superhet. Coverage includes: 80, 40, 20, 16, 11-10 and 6 meters. Antenna trimmer, 1/4" Headphone Jack, Speaker, BFO.

Comment:

Tubes, power supply and coils were extra. The 802 was last McMURDO Silver receiver produced.

Variants:

Model 801 Atom-X was a 4 tube regen .45-60 MHz.

NEVADA

MS1000



Wideband Receiver

Digital LCD to 5 kHz
Made in Japan

Solid State
1991 \$400A new.

Features:

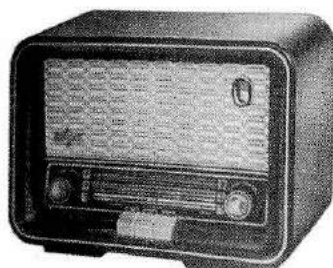
Coverage: .5-600 and 800-1300 MHz in AM, FM-N and FM-W. 1000 Memories, squelch, attenuator, keypad or knob tuning, scan, sweep. Operates from 12 VDC. 4.7x2x8" 1.6 Lbs

Comment:

Sold in England.



W637 Norette



Shortwave Broadcast Receiver

Analog 6 Tubes
Made in West Germany 1954

Features:

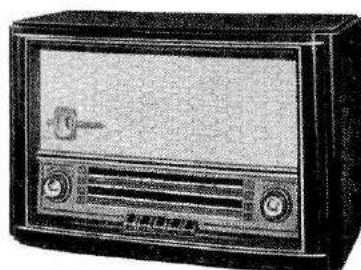
Ranges: "3 Shortwave Bands". Speaker, Tone and AVC. This model operates from 90-110/125/150/220/240 VAC

Comment:

Other features and specifications are unknown.



W648Z Universal



Shortwave Broadcast Receiver

Analog 6 Tubes
Made in West Germany 1954

Features:

Ranges: "Medium Wave, Longwave and 2 Short-wave Bands". Speaker, Tone and AVC. This model operates from 90-110/125/150/220/240 VAC or a 6 volt car battery. Brown plastic case.

Comment:

Other features and specifications are unknown.

Petersen

RM2-4



Four Channel Fixed Receiver HF/VHF

No Display Solid State
Made in U.S.A. 1969-71 \$70-75 new.

Features:

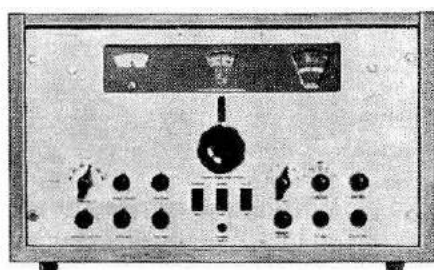
Up to four channels of fixed reception from 2 - 200 MHz in AM or FM mode. Uses frequency plug-in cards. Speaker, Squelch. 3.375x5.75x7.5" 120 VAC or 12 VDC.

Variants:

Model RM2/1 was a one channel version.



8RO 501



General Coverage Communications Receiver

Analog 13 Tubes & 8 Diodes
Made in Holland 1963

Features:

Ranges: .225-.54, .47-1.128, 1.1-2.64, 2.6-6.24, 6-14.4 and 13-31.2 MHz. S-Meter, Dial Lock, RF Gain, BFO, AGC, Antenna Trimmer and 1/4" Headphone Jack. Double conversion superheterodyne.

Comment:

Operates from 90/110/125/145/200/220/245 VAC. 21x14x18" 70 Lbs.



BX 925A



General Coverage Communications Receiver

Analog Tubes
Made in Holland 1954

Features:

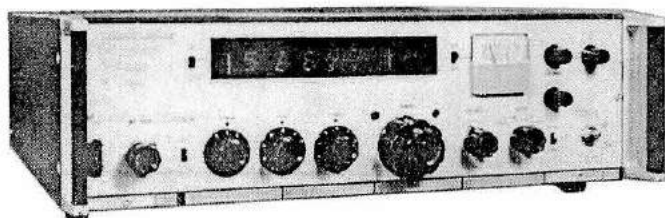
Coverage: .21-.54, 1.45-32 MHz in 6 ranges. S-Meter, Dial Lock, 4 bandwidths, RF Gain, BFO, NL, AGC, Crystal Calibrator 500 kHz, Antenna Trimmer and 1/4" Headphone Jack. Has motorized tuning.

Comment:

Has provisions for SSB and diversity applications.



RO 150



General Coverage Communications Receiver

Digital to 1 Hz Solid State
Made in Holland

Features:

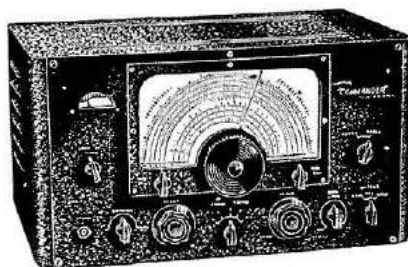
S-Meter, RF Gain, BFO ± 3 kHz, Memories, Attenuator, AGC, 6/3.1/.6 kHz, 1/4" Headphone Jack, Rack Handles, speaker, speaker switch. Coverage is from 200 - 30000 kHz CW/AM/LSB/USB. Modular construction.

Comment:

Uses decadic switches for 10 MHz, 1 MHz and 100 kHz. Free tuning for 10 kHz to 1 Hz.

**RADIOVISION
Ltd.**

Commander



General Coverage Communications Receiver

Analog Tube Type
Made in England 1950 \$261 new.

Features:

Double conversion superhet covering 1.7-31 MHz in 5 bands. S-Meter, 3 position selectivity, RF Gain, BFO, NL, Standby, Bandsread 80-10M, 50:1 Tune Ratio. IFs: 1600, 100 kHz. 100-250 VAC, 50/60 Hz. 21x11.25x14" 46 Lbs.

Comment:

Was imported and distributed in the United States by Radio Shack.

Samyung

SYR-3000P



General Coverage Communications Receiver

Digital Solid State
Made in Korea

Features:

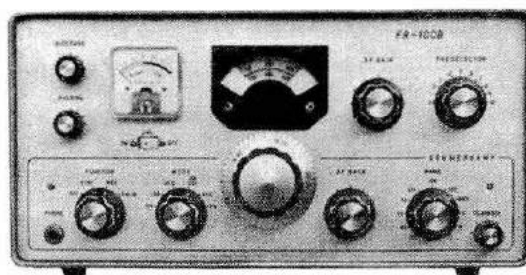
S-Meter, RF Gain, BFO, Memories, Attenuator, AGC, 3 bandwidths, Scanning, 1/4" Headphone Jack, Rack Handles. Coverage is from 90 - 30000 kHz in the following modes: AM/CW/USB/LSB/FSK/FAX. Has Line and IF out. Operations is from 110VAC or 24 VDC. Modular construction.

Comment:

\$900-900 used.

Sommerkamp

FR-100B



Amateur Band Receiver

Analog Linear Display. 12 Tubes
Made in England. 1967-1968 \$250 new

Features:

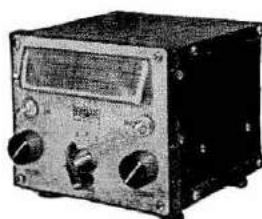
Dual Conversion. Covers 80 to 10 meters. Features: RF Gain, Preselector, ANL, S-Meter, Standby, 1/4" Headphone Jack.

Comment:

Was imported for the American market by Barry Electronics of New York.

SONAR

MR-3



Amateur Receiver

Analog 8 Tubes
Made in United States 1953 \$90 new.

Features:

This five band receiver covers: 80, 75, 20, 11 and 10 meters. Has dial lamp, BFO and NL.

Comment:

Designed for mobile amateur market.

Variants:

Model **MR-4** covers: 80, 75, 40, and 20 meters.

Model **MR-5** covers: 80, 75, 20, and 10 meters.

SONAR

SR-9



Amateur Receiver

Analog 9 Tubes
Made in United States 1948-53 \$73 new.

Features:

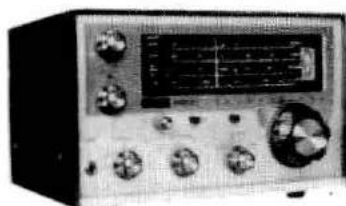
This radio was available in one of the following configurations: 2M, 6M, 10-11M or commercial band. AM only. Has NL.

Comment:

5.55x3.375x5.8". Designed for mobile ham market. An airport version was also produced.

 **star-line**

SR-200



Amateur Band Receiver

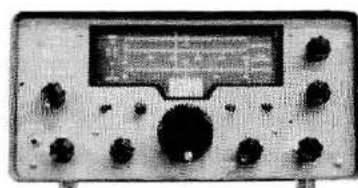
Analog Display. 8 Tubes
Made in Japan. 1968 \$120 new

Features:

Single conversion, 160 to 10 meter coverage, S-Meter, ANL, 1/4" Headphone Jack, Calibrator.

 **star-line**

SR-550



Amateur Band Receiver

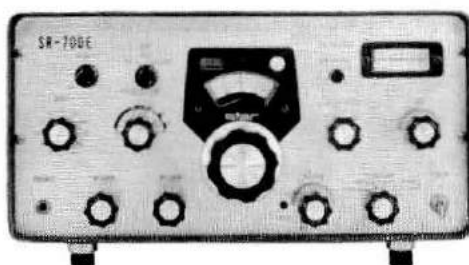
Analog Linear Display. 10 Tubes
Made in Japan. 1967-68 \$150 new

Features:

Double conversion, 160 to 6 meter coverage, Selectivity: 4/2.5/1.5/.5 kHz., S-Meter, ANL, 1/4" Headphone Jack, Band Pass Filter.

 **star-line**

SR-700E



Amateur Band Receiver

Analog Linear Display. Tube Type
Made in Japan. 1966-68 \$395 new

Features:

Triple conversion, 75 to 10 meter coverage, Selectivity: 4/2.5/1.5/.5 kHz., S-Meter, AVC OFF/FST/SLO, ANL, 1/4" Headphone Jack, Band Pass Filter, Notch, SO-239. 1 kHz dial accuracy.

Comment:

Matches ST-700E Transmitter. Reviewed in QST August 1967. 15.25x7.25x14.25" 30 Lbs. 115/230 VAC 50/60 Hz.

TAPETONE 345 Sky Sweep



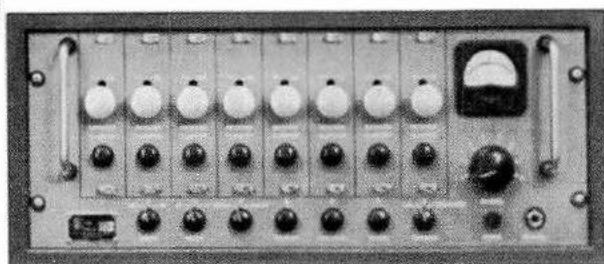
Amateur Band Receiver (VHF)
 Analog Tube Type
 Made in U.S.A. 1959 \$280 new.

Features:
 A 1/4" Headphone Jack, S-Meter, Antenna Trimmer, BFO, Standby. Receives 6 meters, 2 meters, 220 MHz and 440 MHz. Please note that while this receiver has **no** HF coverage, even though it looks like an H.F. amateur band receiver.



TECHNICAL MATERIAL

SMR-1

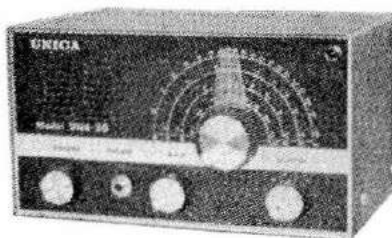


Eight Channel Strip Receiver
 No Display Solid State
 Made in U.S.A. 1964-1966

Features:
 Eight channel coverage in the range of 2 to 32 MHz. AM/CW/LSB/USB, 1μV 10 dB S/N sensitivity, 1 part per 10⁴ per day stability, for rack mounting. With S-Meter and 1/4" Headphone Jack.

Unica

UNR-30



General Coverage Communications Receiver
 Analog Display.
 Made in England ? 1968

Features:
 Covers 550 - 30000 kHz. Has BFO, Speaker and 1/4" headphone jack. Operates from 220/240. Sold in England.

Utica

92-05



General Coverage Communications Receiver
 Analog Display. Solid State (?)

Features:
 Covers 550 - 30000 kHz. Ranges: .55-1.6, 1.6-4.4, 4.5-12 and 12-30 MHz. Has BFO, 3x5" Speaker, 1/4" headphone jack, ferrite MW antenna, bandspread 0-100, dial lamp and standby.

Comment:
 Similar to Midland model 11-500.

80 Receivers That Never Were

Many receivers were never manufactured in quantity for various reasons, including technical and financial. In some case only an advertising prototype was produced. This would be a totally non-functional unit, with no operating electronics, and usually with knobs just glued on. In other cases an actual working prototype was produced. A few of these models were produced, but in very small numbers (usually a few dozen or less).

Collins 51-J5 (only one made, evolved into the 51S-1)

Eska ESCOM 500

Grove SR-1000

Grove SW-100

Hallicrafters SX-46

Hallicrafters SX-112

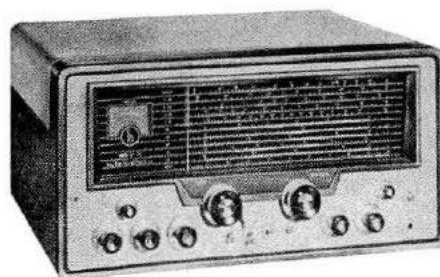
Hammarlund HQ-225 (was to be an SWL version of the HQ-215)

R.F.T. EKD 700

Signal One CR-1200 1972

Signal One CR-1500 1972

Terra Nova FRR-1



Hallicrafters SX-112



Grove SW-100



Grove SR-1000

Shortwave Receivers Past & Present

is your comprehensive guide to over 500 short-wave receivers manufactured in the last fifty years. Tabletop (non-portable) general coverage, amateur, shortwave and specialty receivers are featured.

Whether you are a shortwave listener, amateur radio operator or radio collector, here is the information you need in an easy to use format. Organized for quick reference, entries include:

- Receiver Type
- Photograph
- Features
- Specifications
- Accessories
- Variants
- Availability
- Date Sold
- Size & Weight
- Reviews
- Cost When New
- Used Value
- Value Rating
- Status

Worldwide shortwave receiver manufacturers from the period 1945 to 1996 are represented.



Shortwave Receivers Past & Present
Communications Receivers 1945-1996

Second Edition

By Fred Osterman Universal Radio Research

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